Chapter 12
Diagnostics

This chapter is a combination of the old VAX Diagnostics and XXDP chapters. It has two separate sections, the first contains information on VAXPAX (VAX) diagnostics, and the second contains information on XXDP (PDP) diagnostics.

12.1 VAXPAX, VAX Diagnostics

This section by Pete Griffin . . .

Revision information:

Updated with EVNDX-51, Apr '93.
Updated with EVNDX-52, Jul '93.
For subsequent updates see factflash "VAXPAX 5n release notes" at end of chapter.

I used to update this with problem reports on an SIE roll-up, but that service has been discontinued.

I used to only re-release this chapter after EVEN numbered releases of EVNDX; but since the intro of ISO-9000, there is a requirement. that engineers must be able to find the latest revision for any particular diagnostic; the way we achieve this at Welwyn for VAX diagnostics is via this Chapter. The Service Centre must also have the latest revision available; the way we achieve this at Welwyn is via the node WELUNI, lots of "old" devices and dual ported RA disk drives.

However, with the increasing stability of VAXPAX, I may start identifying and reporting changes/updates via a FactFlash at the end of this chapter. **So please check for a FactFlash before using this chapter.**

12.1.1 Read me first

There are several sections to this chapter:-

- VMS - VAXPAX - DIAGNOSTIC SUPERVISOR general issues.
- A section for each CPU. Console media, ucode, micros etc.
- GUIDE to Generic VAX diagnostic INDEX
- Generic VAX diagnostic INDEX

Digital Internal Use Only

12.1.2 VMS - VAXPAX - DS

Cross reference of Diagnostic Supervisor REV and (VAXPAX number)

```
EASAA      KA800 DIAG SUPERVISOR, 11.4(34)
EBSAA  8200/8300 DIAG SUPERVISOR, 14.4(43)
ECSAA      11750 DIAG SUPERVISOR, 11.6(35)
EDSAA  8650/8650 DIAG SUPERVISOR, 13.1(41)
EHSAA  See Section 12.1.6
EJSAA  8840      DIAG SUPERVISOR, 13.1(41)
ELSAA  6200      DIAG SUPERVISOR, 15.1(47), 15.2(48), 15.3(49), 15.4(51)
EMSAA  6500      DIAG SUPERVISOR, 15.1(47), 15.2(48), 15.3(49), 15.4(51)
ENSAA  11725/730 DIAG SUPERVISOR, 10.10(32),
ERSAA  6400      DIAG SUPERVISOR, 15.1(47), 15.2(48), 15.3(49), 15.4(51)
ESSAA  11780/785 DIAG SUPERVISOR, 11.7(36)
           7.0 Suspect will not test devices on UBA#1 on 780/785
EVSAA  The Diagnostic Supervisor help file
EXSAA  6600      DIAG SUPERVISOR, 15.1(47), 15.2(48), 15.3(49), 15.4(51)
EZSAA  85/87/8800DIAG SUPERVISOR, 13.1(41)
           REV D Time stamps are incorrect. Does not delete line.
```

- "Mile-stone" distributions of VAXPAX

  VAXPAX 17 - last distribution to work with VMS 3.x (Diag.Super V6.14)
  VAXPAX 31 - last distribution to work with VMS 4.x (Diag.Super V10.10)
  VAXPAX 32 - odd files were last seen on this issue.
  VAXPAX 34 - last distribution to have '730/'750 specific stuff
  VAXPAX 36 - last distribution to have '780/'785 specific stuff
  VAXPAX 41 - last with 86x0/8800/8700/8500 specific stuff.
  VAXPAX 43 - last distribution to have 82xx/83xx specific stuff.
  VAXPAX 44 - more odd files were last seen on this issue.
  LASTSEENxx - lots of odd files have gone missing over time, here xx tells you where I saw it last!

- Various confusion factors concerning directories

  DIAGBOOT & DS must be in the same root ?
  DS is not as clever as DCL, do a DS> SHOW LOAD to see where it is trying to get diagnostics from.
  Do not use HSC failover (R2<15:8>) feature when booting DS.
  The DIAGBOOT will pick up <15:8> and then not try <7:0>.

- Example to SET LOAD to an HSC disk on a 780

```
DS> ATT CI780 HUB PAA0 14 4 2
DS> ATT CI_NODE PAA0 CIA0 HSC50 0
DS> ATT DISK CIA0 HSC50$DUA0 (or $x$DUA0 if alloc. set)
```

- EVENT flags get reset, so need setting before each START or RUN
- To use console media SET LOAD CSA0: (NOT CSA1:)
- Beware versions with an **X**, these are experimental.

Digital Internal Use Only

12.1.3 EB - 8200/8300 - SCORPIO

No micros, modules have self-test. It is recommended to have the following floppies available.

```
FG79 - DIAGNOSTIC SUPERVISOR
FG80 - UTILITY - EBUCA etc
FG81 - CONSOLE
FG82 - 8200/8300 PART 1 - EVKAA, EVKAB, EVKAC, EVKAE
FG83 - 8200/8300 PART 2 -
FI08 - CIBCI FUNCTIONAL
FI62 - CIBCI REPAIR PART 1
FI63 - CIBCI REPAIR PART 2
FJ11 - CIBCA MICROCODE
FJ12/19 - CIBCA REPAIR 1
FJ13/20 - CIBCA REPAIR 2

EBKAX  8200/8300-SPEC CPU CLUST EXER, L3, 1.11(43)
       TST29 halt code 0C or machine check if MS820-CA
EBDAN  8200/8300 SERIAL LINE DIAG, L2, 1.0(25)
EBKMP  8300 MULTI_PROCESSOR TEST, L3, 1.0(25)
EBUCA  8200/8300 EEPROM & BI CONFIG, 2.4(29)
 "File checksum error" due to EBUCA/EBSAA in-compatability
 VAXPAX 33 thru 35 also corrupt the floppy if you do a WRITE
 to the image file EEPROM.IMA
EBWLA  VS8000 STRUC MEM/KA800 TST, L3, 1.1(32)
EBWLB  VS8000 VID ALIGN PATN TST, L3, 1.1(32)
EBWLC  VS8000 KA800/VDS IFACE TST, L3, 1.1(32)
EBWLD  VS8000 PERIPH RPTR BOX TST, L3, 1.1(32)
EBWLE  VS8000 ENET ADDR DISPLAY, L3, 1.0(32)
```

12.1.4 EC - 11750 - COMET

It is recommended to have the following TUs available.

```
TU1  - 11750 MICRO DPM
TU2  - 11750 MICRO MIC
TU5  - 11750 CACH/MEM/EXER
TU6  - DIAGNOSTIC SUPERVISOR
TU7  - VAX HARDCORE - EVKAA, EVKAB
TU8  - VAX INST     - EVKAC, EVKAD, EVKAE
TU17 - 11750 RD DIAG - RH750, DW750
TU41 - 11750 CONSOLE
TU53 - CI750 #1
TU54 - CI750 #2
```


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```
ECCAA  RH750 DIAG, L3, 1.7(17), 1.8(21)
           1.8 Fails if more than 1 unit selected
           TST:6 fails,eco m9313 makes R1=0k1
ECCBA  UBI/DW750 DIAG, L3, 1.3(17), 1.4(23)
           1.4 fails TST:29 if TUK50 on 2nd DW750, do SET TRACE
           1.3 fails TST:27,29,30 with 2nd DW750
ECCGA  CI750 REPAIR LEVEL I, L3, 1.0(17)
ECCGB  CI750 REPAIR LEVEL II, L3, 1.1(17)
ECCGC  CI750 REPAIR LEVEL III, L3, 1.0(17)
ECCGD  CI750 REPAIR LEVEL IV, L3, 1.1(17), 1.2(25)
ECCGE  CI750 REPAIR LEVEL V, L3, 1.1(17), 1.4(37)
           1.1 Fails TST:10 if L0100 is rev E1
ECKAA  11750 UDIAG MONITOR, L5, 8.5(17), 8.7(24)
           8.5 Problems starting individual tests
           If L0008 fitted must jumper 5B44-5B48 to run test
ECKAB  11750 MICRO DPM, L5, 9.1(17), 9.2(28)
           May fail if L0003YA, see tech-tip on speedy 463
ECKAC  11750 MICRO MIC, L5, 7.3(17), 8.0(24)
           Any revision will fail TST:86-89 if running in LOOP mode
           TST:7A fails if L0022(MS750-H) and ECKAC less than Rev 8.0
           7.3 & 8.0 May fail Test 1B & 5F if L0003-YA see speedy 463
           ERR:46,TST:76,SUB:1 if no FPA
           Intermittent errors if FPA
ECKAM  11750 MEMORY DIAG, L3, 2.4(17), 3.3(33)
           3.0 and 3.1 - Gives "write bus timeouts"
           Fails if L0016 and <6mB
           2.4 Array1 not fully tested if 7 arrays
           Will not run with MM enabled
```

12.1.5 ED - 8600 / 8650 - VENUS / MORNING_STAR

The micros and load path diagnostics are on the console RL02, see the Fact-Flash at the end of Chapter 5 for the current field status. There is a tip about attaching a CI780, see EVCGx. Also see the failure under EVGAB.

```
EDKAX  8600 CPU KERNEL EXERCISER, L3, 9.07(30)
           May fail TST:16,STST:8,ERR:5
```

The following may fail if the /QA switch is set. EVCBA, EVDXA, EVRBA, EVRCA, EVRDA, EVRDB, EVREF, EVREG, EVRFA

12.1.6 EH - MICROVAX / MICROVAX II - SEA_HORSE / MAYFLOWER

As far as I can see, EH stuff is not on VAXPAXs. The CPU specific programs come on three RX50 floppies. See page 43 of MicroVAX 1 Pocket Service Guide (EK-KD32A-PG) for the diagnostic strategy.

12.1.7 EJ - 8810/20/30/40 - POLARSTAR

All Polarstar diagnostics live on the console UVAX and are updated with the console. Bug information only is included here, see Section 2.16.7, Diagnostics for a full list.

```
EJKAH        6.0    Fails test 26, pass 1, error 0
EJKAN        5.0+?  Fails test 12 with unexpected MCK, with B4 PMCL
STRESS.COM 6.0      Can leave PSU margins "HIGH" and clock set "FAST"
```


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12.1.8 EL - 6000/200/300 - CALYPSO/CVAX

There are no micros for the CALYPSO, the boards have self test logic. Note that EVKAQ etc replace the more usual EVKAB etc (me no know why).

Use the /DS qualifier if running RBDs on the TK (else Z timeouts)

At VAXPAX 34 it shows two CALYPSO TK50s.

First is the 'CONSOLE" (AQ-FJ77C-ME), holding CIBCA, CIBCB, DIAGBOOT, ELSAA, EVGDA, EVRLB, EVRLK, EVSBA, VMB.

Second is COMPLETE DIAGNOSTIC SET (AQ-FK02C-DE), this holds all the individual files you are likely to need.

On a 6300, the supervisor may TRAP, just ^P and START 10000

After EVSBA the next command to use the TK will "hang" for 2 mins.

```
ELSRA  DUP CONTROL PROGRAM (huh??), L3, 1.0(37)
ELKAX  VAX 6200 MANUAL TESTS, L3, 1.5(46), 1.6(48)
       TEST 1 fails on early TKs
ELKMP  VAX 6200 MULTIPROCESSOR EXERCISER, L3, 1.6(40)
```

12.1.9 EM - 6000/500 - CALYPSO/MARIAH

```
EMKAX  VAX 6500 MANUAL TESTS, L3, 1.2(44), 1.3(48)
```

12.1.10 EN - 11730 - NEBULA

The console should report itself as being at least V58.

```
TU34   11725/30 CONSOLE
TU35   DIAGNOSTIC SUPERVISOR
TU36   MICROS
TU39   IDC
TU7    VAX HARDCORE EVKAA, EVKAB
TU8    VAX INST     EVKAC, EVKAD, EVKAE
```

12.1.11 ER - 6000/400 - CALYPSO/RIGEL

```
ERKAA  KA64A CPU TESTS, L4, 1.2(41)
 Will only run on the BOOT cpu module.
 To run this, you have to put it onto a system disk as a contig file,
 then get VMB to prompt for the secondary boot image's name, and then
 tell it to get ERKAA.EXE -- if all this works, I can't see that you
 would need to run ERKAA anyway, the system must be o/k!!
ERKAX  VAX 6400 MANUAL TESTS, L3, 1.2(44), 1.3(48)
 Console ROMs cause TEST 20 to fail on Rev K, TEST 10 fails on Rev J
ERKMP  VAX 6400 MULTIPROCESSOR EXERCISER, L3, 2.2(45)
        2.1 Fails if there is no XBIA adapter present, fixed in 2.2
```


Digital Internal Use Only

12.1.12 ES - 11780 - STAR

There should be several floppies always available, see EVNDX to determine the latest copy.

11780 specific diagnostics were discontinued at VAXPAX 36

```
RX1  - 11780 STANDARD CONSOLE
RX2  - MICRO 1
RX3  - MICRO 2 for 11780s with MS780C memory
RX7  - DIAGNOSTIC SUPERVISOR
RX8  - MICRO 3 for 11780s with MS780E/H memory
RX22 - MICROS  for 11780s with MA780 multi-port memory
RX25 - VAX INST 2 - EVKAC, EVKAD, EVKAE
RX41 - 11780 EUROPEAN RDC CONSOLE
RX42 - 11780 EUROPEAN RDC MICRO 1
RX43 - 11780 EUROPEAN RDC MICRO 2
RX61 - VAX BUS AND AUTOSIZER for RH780, DW780
RX62 - VAX INST 1 - EVKAA, EVKAB
RX63 - CI780
```

```
CONSOLE     Needs WCS 126 if CPU at REV8

MICRO 1     13.2 may give Ill-Fail-Ch-Code SEC:3A TST:155 ERR:1088
            SEC:36 TST:12D fails if 11780=REV6 with SID=REV7
            TST:163 fails if ACDCLO

MICRO 2     NOTE Power off mem. or reset register after running
            TST:1EB fails if unibus BA11 is tripped out
            14.0 fails sec:53 tst:1f4 err:10e2 if ci780 present
                       sec:3e tst:17d if ms780e(use micro#3)
            13.1 fails sec:3d tst:17d if 780=REV6 with SID=REV7
                       SEC:3D TST:172  "    "       " M8224= "

MICRO 3     NOTE Power off mem. or set config. reg after running
            If TST:1FF timeout at upc1242 check dw780/unibus
            TST:207 fails if BA11K is off
            TST:213,SUB:3&6 use DW to read mem, reg's may be stale
            MS780H needs version 2.0 else fails
            1.1 Fails TST:18E ERR:11D0 ST:0 if multiple ms780e

MA MICROS   13.2 Fails if multiple DW780's
```

12.1.13 ET - 11785 - SUPERSTAR

11785 diagnostics were discontinued at VAXPAX 36

```
RX1A - 11785 STANDARD CONSOLE
RX2A - MICRO 1
RX3A - MICRO 2 for 11785s with MS780C memory
RX5  - MICRO 4 for 11785s with FP785
RX7  - DIAGNOSTIC SUPERVISOR
RX8A - MICRO 3 for 11785s with MS780E/H memory
RX10 - CLUSTER - ETKAX
RX22A- MICROS for 11785s with MA780 multi-port memory
RX25 - VAX INST 2 - EVKAC, EVKAD, EVKAE
RX61 - VAX BUS AND AUTOSIZER for RH780, DW780
RX62 - VAX INST 1 - EVKAA, EVKAB
RX63 - CI780
```


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```
ETKAC  FP785 - standalone EGYPTD, L4, 1.1
            Get from SWIFT::SYS$PUBLIC
MICRO 1     1.0 if fails TST:2D (calling M7471) check wire-run,
                may be shorted to F12N1
            TST:163 fails if ACDCLO

MA MICROS   Fails in TST:026C with CP timeout

MICRO 3     Timeout in TST 020C if BA11 tripped out

MICRO 4     3.0 SEC:7 TST:5D fails after 785 FCO#3
            2.0 SEC:1 fails if M7544 is rev C1
             TST:5E,SEC:7 fails if ECO MK003 done
```

12.1.14 EX - 6000/600 - CALYPSO/NEPTUNE

```
EXKAX  VAX 6600 MANUAL TESTS, L3, 1.0(46), 1.1(48), 1.2(52)
```

12.1.15 EZ - 8800 / 8700 / 85x0 - NAUTILUS

All the diagnostics are on the console RD52 and are updated with the console. Bug only information is listed here, see Section 2.10 for a full list.

```
EVKACZ VAX FLOATING POINT INST, L2 8.3000000001
            Special "post-retirement" release for 88/87/8500 (See note)
EZKAB  VAX 8800 TRAPS MICRO, L5, 9.0(33)
            REV D TST:E gives CSM TO or CHKSM when there is a fault.
EZKAE  VAX 8800 PARITY MICRO L5, 8.0(32)
            Intermittantly fails test 5, error 2, pass 1. OK if restarted,
EZKAH  VAX 8800 FP MICRO, L5, 9.0(33)
            First test may fail, if T4=0 then no problem
EZKAL  VAX 8800 TB RAM MICRO, L5, 9.0(33)
            First test may fail, if T4=0 then no problem
EZKAR  VAX 8800 CACHE DATA MICRO, L5, 9.0(33)
            REV D can give mcchk, uses arrays before testing
                 can callout CCS,ADP should be MCL,MAR0
EZKAV  VAX 8800 RLOG MICRO, L5, 9.0(33)
            REV D TST:2,4 fail ERR:2 if run after power-up
EZKAX  VAX 8800 CPU CLUSTER EXER, L3, 2.4(30)
            REV D Fails TST:5
EZKBA  VAX 8800 MEMORY 1 MICRO L5, ?.?
            Can give "ERROR, CLOCKS NOT STOPPED" on exiting MIC>.
            Fails test 19, error 5 if EMC memory present
EZKBB  VAX 8800 MEMORY 2 MICRO L5, ?.?
            Can give "ERROR, CLOCKS NOT STOPPED" on exiting MIC>.
EZKBD  VAX 8800 NBIA 2 MICRO L5  ?.?
            Can give "ERROR, CLOCKS NOT STOPPED" on exiting MIC>.
EZKPA  VAX 8800 POWERUP 1 MICRO, L5, 7.0(30)
            REV D TST:6,D fail intermittantly with CSM TO or CHKSM
EZXCA  NAUTILUS NMI EXER, L3, 2.1, 2.4(30)
            2.4 May fail on 8800 with 1xNBIA - DESELECT KA1 to fix!
            2.4 Can fail test 5 with large memorys
```

NOTE: EVKACZ is available on Console Rev 10. Also, at Welwyn, it is on the master rev 9.4 RD52, and some copies on RX50 are in the Datadoc Media Cabinet.

Digital Internal Use Only

12.1.16 GUIDE to generic VAX diagnostic INDEX

This lists title, revision information and problems.

Historical info will be kept wherever size is acceptable.

The diagnostic name and title are printed in alphabetical order, (except the VMS DRIVERS which are last).

After the title probably comes "Lx" which shows the environment the diagnostic needs (not all files can be categorised) :-

L1 Programs that run under VMS using queue I/O, these do not use the Diagnostic Supervisor (eg UETP)

L2R Programs that use the Diagnostic Supervisor but only run under VMS (using physical QIO). [R=restricted]

L2 Programs that use the Diagnostic Supervisor and run

- Under VMS using ??DRIVERs in [SYSEXE]
  Some rare products don't have VMS drivers normally distributed, so you must CONNECT with SYSGEN to its ??DRIVER in [SYSMAINT].
- Stand-alone mode using EVQ??? driver from load device

L3 Programs that use the Diagnostic Supervisor but run only in stand-alone mode (cannot run under VMS) using direct I/O (pokes registers so does not use a "driver")

L4 Stand-alone programs that run without the Diagnostic Supervisor

L5 Console-based diagnostic programs

The current revision of the diagnostic is shown, followed (in brackets) by the revision of diagnostic tape it was released on. The EVNDX 17 and 32 revs have been left where applicable for VMS 3 and 4 systems.

12.1.17 Generic VAX diagnostic INDEX

```
BOOT58      VAX BOOT FILE, 5.2 - LASTSEEN43
CI780.BIN   CI MICROCODE, 8(28) - LASTSEEN43
CIBCA.BIN   CIBCA MICROCODE, 8.5(45)
CIBCB.BIN   CIBCB MICROCODE, 4007.4002(45)
CIE100A, CIE100B, CIE100C are the CI Exerciser save-sets
CIXCD       CIXCD MICROCODE, 2.04(45), %X45(46), %X46 is %D70(49)
DIAGBOOT    VAX SECONDARY BOOTSTRAP PROGRAM, 15.1(47), 15.2(48), 15.3(49)
DR750       DR750 FUNCTIONAL MICROCODE, 1.M(17) - LASTSEEN34
DR780       DR780 FUNCTIONAL MICROCODE, 1.D(17) - LASTSEEN36
DUCT        DIAGNOSTIC UPDATE CONFIG TOOL, L1,
               Program is specific to tape revision
               V29 needs VMS 4.4 or later
               Doesn't like MUA0:, try $ DEF MTA0: MUA0:
                                    then use MTA0:
               Update function doesn't work on any current rev.
EVAAA   LINE PRINTER, L2R, 10.1(36) - LASTSEEN41
        Printer must not be spooled by VMS, also you must LOAD
        the diagnostic BEFORE doing the ATTACH.
             8.3 Fails init section, error 9 on 8800 with DMB32
             8.0 Needs patches for LG0x
             6.0 Release 19 will not support serial LN01
             5.3 On DMF32 puts async lines into MWAIT
EVAAB   LXY PRINTER DIAG, L2, 1.0(17) - LASTSEEN32
EVAAC   LCG01 PRINTER DIAG, L2R, 1.0(20), 2.0(??) - LASTSEEN44
EVAAD   LN03 LASER PRINTER DIAG, L2, 1.1(23) - LASTSEEN32
EVABA   CR11 CARD READER, L2R, 4.0(17) - LASTSEEN32
```


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```
EVALA  LPA11-K SYSTEM, L2, 1.2(17) - LASTSEEN32
           Fails tst:20 with test module & kw11k cable plugged in
           Sect:dacal will not loop to perform adjustments
           Fails tst:31 if less than 5 dr11k's config for the lpa
           Fails version 4 or 5 of microcode
           Fails tst:27 st0 err:7 with two ad11k's,change clock
            preset from fff3 to fff2
EVALB  AA11-K D/A CONV REPAIR, L3, 1.1(17) - LASTSEEN41
           1.1 In fiche ev fl 8&9 have their meanings reversed
EVALC  AA11-K A/D CONV REPAIR, L3, 1.3(17) - LASTSEEN41
           1.3 Fails test 11,19,20 if cable connected to kw11-k
EVALD  DR11-K DIGITAL I/O INTFC, L3, 1.1(17) - LASTSEEN41
EVALE  KW11 DUAL PROG CLOCK, L3, 1.1(17) - LASTSEEN41
           1.1 Fails test 2 when kw11-k cable connected
               Fails tst:8 st:0 err:12 & tst:18 on 50hz, will work
               on slow clock margins or patch:-set base 2c04
                                              dep/byte 2a7 03
                                              set base 44b4
                                              dep/byte 207 03
EVALF  LPA11-K I/O BUS TEST, L3, 1.1(17) - LASTSEEN41
           1.1 Some tests abort if trace set
               Tst:31 fails if kw11-k cable connected
               To test the dr11-k need to attach device DRan
               but this is an invalid name.Give a "CLEAR ENFORCE"
               command before the attach so it will be valid
EVCAA  RH780 DIAG, L3, 1.5(32) - LASTSEEN41
           1.4 TST:11 STST:9 and TST:16 STST:15 fails on 11785
           1.2 Intermittent M-Check in TST:16, T.O.reg=28004005
               RD-DATA-TO not being set, fails TST11&16
EVCBA  DW780 DIAG, L3, 1.4(28) - LASTSEEN41
           May fail on 8600 if /QA is used.
           1.1 TST:17 fails on 8650, okay if set clock to 50MHz
               TST:27 hangs if DMZ32 not connected, see DW-TT-5
EVCBB  DWBUA LEVEL 3 DIAGNOSTIC, L3, 2.7(39), 3.0(52)
           2.3 fails on 8200 if DELUA is fitted
           2.2 cannot setup UBE's if on multiple DWBUA's
               TST:20 fails on Nautilus
           2.1 TST:11 fails on 8800
EVCDA  IEC11-CA FUNCTIONAL DIAG, L2, 3.0(17) - LASTSEEN32
EVCDB  IEU11-A ONLINE TEST, L2R, 1.0(17) - LASTSEEN41
EVCDC  IEU11-A M8648 OFFLINE TST, L3, 1.0(17) - LASTSEEN41
EVCEA  UNIBUS SWITCH FUNCT, L3, 1.3(24) - LASTSEEN41
EVCFA  DEC DATAWAY EXER, L2R, 3.0(17) - LASTSEEN41
           **NO VMS4 SUPPORT!!
           **For CI780 on 8600 must not ATT to HUB, use SBIA!
EVCGA  CI780 REPAIR PART 1, L3, 1.3(38) - LASTSEEN41
EVCGB  CI780 REPAIR PART 2, L3, 1.1(38) - LASTSEEN41
EVCGC  CI780 REPAIR PART 3, L3, 1.1(38) - LASTSEEN41
EVCGD  CI780 REPAIR PART 4, L3, 1.4(37) - LASTSEEN41
           1.0 Fails Test 10 if L0100 is rev E1
EVCKA  CIBCI REPAIR LEVEL DIAG PART 1, L3, 1.9(38) - LASTSEEN44
           1.7 may cause Machine Checks
           Fails tst:18 st:3 on 8800/KA820 after running VMS
           rev D1 or D2 and CIBCI with pass 5 BIIC
EVCKB  CIBCI REPAIR LEVEL DIAG PART 2, L3, 1.5(38) - LASTSEEN44
EVCKC  CIBCI REPAIR LEVEL DIAG PART 3, L3, 1.5(38) - LASTSEEN44
EVCKD  CIBCI REPAIR LEVEL DIAG PART 4, L3, 1.12(25) - LASTSEEN44
EVCKE  CIBCI REPAIR LEVEL DIAG PART 5, L3, 1.10(38) - LASTSEEN44
EVCKF  CIBCI REPAIR LEVEL DIAG PART 6, L3, 1.8(37) - LASTSEEN44
EVCKG  CIBCI REPAIR LEVEL DIAG PART 7, L3, 1.1(38) - LASTSEEN44
```


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```
EVCLA  DWMVA FUNCTIONAL TEST, L3, 1.1(45), 2.1(49)
EVCLB  XJA REPAIR LEVEL DIAG, L3, 2.0(46)
EVCLC  DWMVA-VME FUNCTIONAL TEST, L3 2.1(47)
     Early versions fail due to module re-design, use V 2.0 or better
EVCXD  KFMSA REPAIR LEVEL DIAG, L3, 1.5(46)
EVCXE  DSSI CONFIGURATION TOOL, L3, 1.4(46), 1.5(48), 1.6(49), 1.7(51)
EVCXF  DSSI CONFIG & DUP DIAG, L3,  1.4(46), 1.6(49), 1.7(51)

EVDAA  DZ11, L3, 3.2(34) - LASTSEEN44
            3.1 Fails test 10 on 8650
            3.0 Fails TST:10,11 on 8800
EVDAB  DZ32 REPAIR LEVEL DIAG, L3, 7.0(17) - LASTSEEN41
EVDAC  DMF32/DZ32 LEV 2R FUNCTIONAL, L2R, 2.3(24) - LASTSEEN32
            2.0 Intmtnt char drop/pick.
                Patch - D/B 3ED1 0B , D/B 42D9 0B
EVDAD  DZS11-EA 8 LINE STAT-MUX TEST, L3, 1.0(17) - LASTSEEN41
EVDAE  DMZ32 LEV 3 DIAGNOSTIC, L3, 1.2(27) - LASTSEEN44
EVDAF  DMZ32 LEV 2R DIAGNOSTIC, L2R, 1.2(27) - LASTSEEN44
EVDAH  DHU11 DIAGNOSTIC, L2R, 2.5(38) - LASTSEEN44
EVDAI  DHU11 FUNCT VERIFY TEST, L3, 3.3(34) - LASTSEEN44
            3.1 Lots of failures on 8600/8650
            3.0 TST:29 SUB:1 ERR:3 if on a 8600 or 11785
EVDAJ  DMB32 ONLINE ASYNC PORT TEST, L2R, 3.2(46)
EVDAK  DMB32 STANDALONE FUNCT VERIFY, L3, 4.4(46)
            4.0 May fail if run from script file on 8800
            3.0 May fail TST:11 ERR:4, TST:6 ERR7 TST:9 ERR 6
                patches are on speedy 546
EVDAL  DMB32 ONLINE SYNC PORT TEST, L2R, 4.3(46)
EVDAN  DMB32 ONLINE DATA COMM LINK, L2R, 1.3(46)
EVDAP  DSB32 FUNCTIONAL, L3, 1.4(46)
     Now supplied as a SAVESET (EVDAP.A)
EVDAQ  DSB32 FUNCTIONAL, L2R, 1.2(46)
EVDAR  DHB32 LEVEL 3 DIAGNOSTIC, L3, 1.6(46)
            1.1 TST:6 fails on 86/87/8800s
EVDAS  DMB32/DHB32 ASYNC DIAG, L2R, 2.2(46)
EVDBA  M8201/2 REPAIR LEVEL, L3, 2.3(17) - LASTSEEN41
            2.3 Tst:4 may fail if "modem rdy" is jumpered "on"
                Diag prints rev 2.0 should be 2.3
            Event flag settings:-
            1=8200ya, 2=8200yb, 3=8200yc, 4=8201, 5=8202, 6=8203
            7=8204 1K,8=8204 2k,9=dmp11,10=turnaround,11=dmc11fa
EVDBB  DMC11 EXERCISER, L3, 6.0(17) - LASTSEEN41
            6.0 May fail tst:1 err:9 on 56k dmc's
EVDCA  SYNCHRONOUS LINK DIAGNOSTIC, L2, 3.3(38) - LASTSEEN41
            2.0 Dmr11 must be in dmc mode with self test disabled,
                this is true for VMS as well
EVDCB  GSO3WD EUROPEAN DIAGNOSTIC, L3, 1.0(18) - LASTSEEN41
EVDDA  DR11-C REPAIR LEVEL, L3, 2.0(17) - LASTSEEN41
            NOTE Diag must be loaded to attach device
            2.0 Prints rev 1.0 should be 2.0
EVDDB  DR11-C FUNCTIONAL LEVEL, L2, 3.0(17) - LASTSEEN17?
            NOTE Diag must be loaded to attach device
EVDEA  VAX COMMUNICATION MUX DIAG, L2, 2.0(17) - LASTSEEN17?
            2.0 EVENT FLAG 7&8 must be set for diag to run
            NOTE:- SEC:maint & sec:cable should be run
```


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EVDEB  DV11 BASIC R/W & UP INSTR EXER, L3, 3.0(17) - LASTSEEN41
       3.0 Diag prints rev 2.0 should be 3.0
EVDEC  DV11 STATIC LINE CARD TEST, L3, 3.1(20) - LASTSEEN41
EVDED  DV11 FREE RUNNING ROM TEST PART 1, L3, 3.0(17) - LASTSEEN41
       3.0 Turnaround connector must be installed
       Cannot select line units,must test in order
EVDEE  DV11 FREE RUNNING ROM TEST PART 2, L3, 3.0(17) - LASTSEEN41
       2.0 D/L 2743 300 else errors when waiting for ready
EVDEF  DV11 MODEM CONTROL & LABEL TEST, L3, 4.0(20) - LASTSEEN41
       NOTE "new sync" jumper on h325 must be cut
       4.0 Random machine checks if essaa 6.5 or above
           patch:- set base 341C
                   d/b 677 8F
                   d   678 0
       SEC:h861 tests lines consecutivly
EVDEG  DV11 ASYNC LINE CARD TEST, L3, 3.0(17) - LASTSEEN41
EVDFA  DR780 PART A, L3, 1.1(19) - LASTSEEN41
EVDFB  DR780 PART B, L3, 1.0(19) - LASTSEEN41
EVDFC  DR780 PART C, L3, 2.0(19) - LASTSEEN41
EVDFD  DR780/750 SELF TEST FUNCT, L3, 2.1(20) - LASTSEEN41
       1.1 XFLOADER loads xf780.uld into the dr780's
           "Error loading microcode/diag" see TT's for cpu
EVDFE  DR780 DR TO DR FUNCT DIAG, L3, 2.1(20) - LASTSEEN41
       1.1 WCS.XFLOADER will not execute from the field
           service account
EVDFF  DR780/750 USER MODE SELF-TEST, L2R, 2.1(20) - LASTSEEN41
EVDFG  DR780/750 USER MODE DR TO DR, L2R, 2.2(20) - LASTSEEN41
EVDFI  DF11-W REPAIR LEVEL DIAG, L3, 2.0(17) - LASTSEEN41
       2.0 Diag prints out rev 1.0 should be 2.0
EVDFJ  DF11-W LEVEL 2 DIAG, L2, 3.0(17) - LASTSEEN32
EVDFL  DR70 REPAIR LEVEL, L3, 1.0(19) - LASTSEEN41
           Fails TST:10 if ECO on M8432 done incorrectly.
EVDFM  DR70, L2, 1.1(33) - LASTSEEN41
EVDHA  KMC11-B REPAIR DIAG, L3, 2.2(34)
       2.0 This now runs on-line using yodriver
           Fails on 11750 second unibus
           Ensure sysgen par. MAXBUF >= 8204
           Ensure process quotas are (or greater):-
                 astl=25,bytlm=8204,biolm=25,
           TST11,SUB3,ERR8-fix by loading before ATT
EVDHB  KMC11-B DIAG, L2R, 3.2(34)
         3.1 Needs YODRIVER loaded and YO connected
         Needs BYTLM >= 8364 else QIO not accepted by driver
         Fails if Diagnostic Supervisor is rev 9
EVDIA  KMS11-BD REPAIR LEVEL, L3, 2.1(26) - LASTSEEN41
         2.0 Fails if vector is 300
EVDIB  KMS11-BD LEVEL 2 DIAG, L2, 3.1(17) - LASTSEEN32
         3.1 See evdha rev 2.0 for quotas
         Needs YODRIVER loaded and YO connected
EVDIE  KMS11-BD DCLT, L2, 1.0(17) - LASTSEEN17?
EVDIG  KMS11-P LEVEL 2 DIAG, L2, 1.0(17) - LASTSEEN17?
         **  No vms4 support
         1.0 Bugchecks if ev fl 3 set and an error occurs
         Uses XNDRIVER not XSDRIVER
EVDIO  KMS11-K FUNCTIONAL LEVEL DIAG, L2R, 1.0(22) - LASTSEEN32
EVDIN  KMS11-K REPAIR LEVEL, L3, 1.0(21) - LASTSEEN41
EVDJA  DM11-BA MODEM CONTROL MUX, L3, 3.1(26) - LASTSEEN44
         Does not understand vectors above 376
EVDKA  DMS11-DA REPAIR DIAG, L3, 3.0(17) - LASTSEEN41
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EVDLA  DMF32 SYN PORT 2R FNCT DIAG, L2R, 4.1(24) - LASTSEEN44
            3.0 Will not test more than two DMF32's
            2.0 fails TST:1,STST:0,ERR:9 if heavily loaded system
EVDLB  DMF32 SYN PORT LEV3  FUNCT, L3, 2.1(24) - LASTSEEN44
            1.2 Fails tst:24 nxm transmit flag error
            Modem section will fail with df03 in analoque l'back
EVDLC  DMF32 ASYNC MUX DIAGNOSTIC, L3, 1.7(24) - LASTSEEN44
EVDLD  DMF32 PARALLEL PORT DIAG, L3, 2.1(24) - LASTSEEN44
EVDLF  DMF32 DATA COMM LINK TEST, L2, 3.2(24) - LASTSEEN44
EVDMA  M8203 REPAIR LEVEL, L3, 4.3(34) - LASTSEEN44
            4.2 Linked bad, use version 4.1
            4.0 Attach command altered when diag loaded
EVDMB  DMP11 FUNCTIONAL DIAG, L2, 4.0(19) - LASTSEEN41
EVDMC  DMC11/DMR11, L2, 3.1(23) - LASTSEEN44
            1.0 Fails on multiple passes
EVDMD  DMP11 DATA COMM LINK TST, L2R, 2.0(19) - LASTSEEN41
EVDMF  M8206/M8201 DCLT DIAG, L2R, 1.0(17) - LASTSEEN32
EVDNA  DN11 ACU INTERFACE DIAG, L2, 4.0(17) - LASTSEEN17?
            4.0 1st line card only tested
EVDNB  DN11 AUTO CALL UNIT INTRFC TEST, L3, 3.1(17) - LASTSEEN41
            3.1 Needs auto calling unit to test multi line cards
                ATT next higher csr to same vector
EVDOA  CPI32A FUNCTIONAL, L2R, 1.0(20) - LASTSEEN32
EVDOC  CPI32A REPAIR LEVEL, L3, 1.0(20) - LASTSEEN41
EVDPC  PCL11-B REPAIR LEVEL, L3, 1.0(17) - LASTSEEN41
EVDPD  PCL11-B LEVEL 3 EXERCISER, L3, 1.0(17) - LASTSEEN41
EVDPE  PCL11-B LEVEL 2R EXERCISER, L2R, 1.0(17) - LASTSEEN32
EVDRB  DR11W ONLINE DIAGNOSTIC, L2, 5.1(37)
EVDRE  DR11W REPAIR LEVEL DIAG, L3, 5.1(37)
EVDRF  DRE11-C LEVEL 3 DIAGNOSTIC, L3, 1.1(25) - LASTSEEN41
            1.0 Fails TST2;ST3 if con. to diff card.
                Patch D/W 415A 2000
EVDRG  DRE11-C ON LINE TEST, L2R, 1.1(25) - LASTSEEN32
EVDRH  DRB32-M -E FUNCTIONAL, L3, 4.4(47)
            2.1 TST15 may cause BI parity errors
EVDRI  DRB32-W FUNCTIONAL, L3, 5.4(47)
            5.3 Test 1 Interupt error on first pass if EVDRH run earlier
            2.1 TST11 may get res.op. fault on 8800
EVDRJ  DRB32-C FUNCTIONAL - 8250, L3, 2.3(36) - LASTSEEN44
EVDRK  DRB32-C FUNCTIONAL - 8000, L3, 1.0(33) - LASTSEEN41
EVDSA  DRS11/DSS11 REPAIR LEVEL DIAG, L3, 1.0(17) - LASTSEEN41
            See DRS11-TT-2
EVDTA  KCT32 REPAIR LEVEL, L3, 2.0(19) - LASTSEEN41
EVDTB  KCT32 FUNCTIONAL DIAG, L2R, 2.0(19) - LASTSEEN32
EVDTC  FEPCM BRIDGE LINK, L2R, 2.4(17) - LASTSEEN32
EVDTD  FEPCM BRIDGE INTRFC DIAG, L3, 2.6(17) - LASTSEEN41
EVDTE  FEPCM VIRTUAL TERM, L2R, 2.1(17) - LASTSEEN32
EVDTF  FEPCM BRIDGE DECX, L2R, 1.1(17) - LASTSEEN32
EVDUP  DUP11 REPAIR LEVEL DIAG PT1, L3, 2.1(38)
EVDUQ  DUP11 REPAIR LEVEL DIAG PT2, L3, 3.1(38)
     May hang in TEST:21
EVDWA  DEUNA REPAIR LEVEL, L3, 2.1(24) - LASTSEEN44
            1.7 TST:15,16,17,18 may fail if M7792 revC on 11780
EVDWB  UNA FUNCT DIAGNOSTIC, L2R, 2.5(36) - LASTSEEN44
            The LAT must be stopped:- $MCR LATCP, STOP, EXIT
     Stopped distribution at VAXPAX 44
     2.5 Needs XEDRIVER from VMS 5.2-1 or above
            2.1 tst:5to8 fail with vms4.4 (use XEDRIVER from 4.2)
            1.1 See fiche for system parameter changes
EVDWC  UNA NI EXERCISER, L2R, 3.3(46)
            1.1 See fiche for system parameter changes
     3.1 Needs XEDRIVER from VMS 5.2 or above
```


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EVDXA  VAX COMM IOP REPAIR, L3, 5.2(34) - LASTSEEN44
            May fail on 8600 if /QA is used.
            5.0 TST:14,STST:1 fails on 8800
            4.0 TST:2 st:1 err:1 if m8200yc mcode certain revision
                TST:20 st:1 err:3 fails on dmc11
                TST:21 st:2 err:3 fails
EVDYB  DELUA ONLINE FUNCTIONAL, L2, 1.4(36) - LASTSEEN44
            Parameter MAXBUF must be 1600 and (USER) BYTLM = 30000
            Stop LAT and DECNET
     1.4 needs XEDRIVER from VMS 5.2-1 or above
EVDYC  DEBNT FUNCTIONAL DIAGNOSTIC, L3, 2.2(33)
            1.8 ERR7 init section fails on 8530 first pass.
                ERR1 init section fails if both ETA and ETA0 selected
EVDYD  DEBNT/NI ONLINE FUNC. DIAG., L2R, 2.8(47)
     2.7 gives "exceeded quota" and DATA COMPARE errors
        due to VMS 5.4-3 and 5.5 reducing multicast users from 10 to 6
EVDYE  DEBNA/NI ONLINE FUNC. DIAG., L2R, 2.2(47)
     2.1 gives "exceeded quota" and DATA COMPARE errors
EVDYF  DEBNI NI FUNCTIONAL DIAGNOSTIC, L3, 1.2(37) - LASTSEEN41
            ?.? Timing problem on 8810N. If EX/BYTE 231B -> 01,
            do DEP/BYTE 231B 05
EVGAA  CI FUNCTIONAL DIAG PART I, L3, 8.0(46), 8.1(48), 9.0(51)
     4.1/4.3 TST9, 10 and onwards fail if T1015 REV C1 (Func.Rev.5)
            3.5 TST1 fails on 8800
     3.1 may cause INTERUPT 60 on 6400
            1.2 Fails TST7;ST0;ERR7,10,11 on 11785
            TST4,ERR3 & TST5,ERR16 if other users on CI
EVGAB  CI FUNCTIONAL DIAG PART II, L3, 8.0(46), 9.0(51)
     5.1 may cause INTERUPT 60 on 6400
            4.4 TST:1 gives machine check if Diag.Super. is rev 11.2
     4.1 fails if T1015 REV C1 (Func.Rev.5)
EVGAC  CIBCA-AA, -BA, CIXCD  FUNCTIONAL EXER, L3, 3.0(46), 4.0(51)
EVGCA  CIBCA T1015 REPAIR PART 1, L3, 3.3(38)
EVGCB  CIBCA T1015 REPAIR PART 2, L3, 2.5(38)
EVGCC  CIBCA T1015 REPAIR PART 3, L3, 2.6(38)
EVGCD  CIBCA T1015 REPAIR PART 4, L3, 3.4(38)
            2.0 fails test 3, error 6 if run after EVGCA in script file
EVGCE  CIBCA T1015 REPAIR PART  , L3, 4.4(38)
EVGDA  CIBCA EEPROM PRGM/UPDATE UTIL, L3, 2.4(46)
EVGDB  DEMNA EEPROM PRGM/UPDATE UTIL, L3, 1.7(47), 1.8(48), 1.9(49)
     Not distributed on VAXPAX 46
EVGEA  CIXCD FUNCTIONAL TEST, L3, 4.1(46), 4.2(48)
            2.1 will blow up FLASHPROM modules (pre version E06)
            3.1 with EV FL 3 will blow up FLASHPROM modules (pre version E06)
            4.0 with EV FL 3 will blow up FLASHPROM modules (pre version E06)
            4.1 or latter MUST be used on FLASHPROM modules
EVGEB  CIXCD EEPROM UPDATE UTILITY, L3, 4.1(46), 4.2(48)
            2.1 will blow up FLASHPROM modules (pre version E06)
            3.1 with EV FL 3 will blow up FLASHPROM modules (pre version E06)
            4.0 with EV FL 3 will blow up FLASHPROM modules (pre version E06)
            4.1 or latter MUST be used on FLASHPROM modules
EVGEE  CIBCA-BA REPAIR LEVEL PART 1, L3, 1.7(46)
EVGEF  CIBCA-BA REPAIR LEVEL PART 2, L3, 1.6(46)
EVGEG  CIBCA-BA REPAIR LEVEL PART 3, L3, 2.4(46)
     1.3 fails TEST:22
```


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```
EVKAA  VAX HARDCORE INSTRUCTION TEST, L4, 11.1(43)
            To run this   >>>load evkaa.exe/st:0   >>>st 200
            Error reports may be incorrect
            10.4 fails TST:9,STST:17 on 785 at rev3 but running SSU01C
EVKAB  VAX BASIC INSTRUCTION EXERCISER, L2, 5.3(34),
            5.2 Fails TST:134 if 48Mb plus 8600 plus EDSAA v10.11
            5.0 If standalone get MCHCHK with timeout at 33333330
EVKAC  VAX FLOATING POINT INST, L2, 8.3(36)
            8.3 Use "special" EVKACZ for 88/87/8500. See "EZ" section
            7.0 On 11785 G&H is standard so say YES in ATTACH!!!
            4.0 TST:2 ST:497 (POLY) fails if M8289 ECO5 incorrect
EVKAD  VAX COMPATIBILITY MODE INST, L2, 3.1(19) - LASTSEEN41
EVKAE  VAX PRIVILEGED ARCHT INSTR, L3, 6.9(36)
            6.2 Intermittent fails TST:6,STST:12,ERR:2
            1.7 If tod clock not working fails pass 1 only

EVKAG  VECTOR INSTR EXER PT1, L2, 3.2(43)
     A Primary WITHOUT a Vector Processor will TURN OFF any other
     Vector Processors when run standalone - causing a RSVD INST FAULT.
EVKAH  VECTOR INSTR EXER PT2, L2, 2.1(43)
     A Primary WITHOUT a Vector Processor will TURN OFF any other
     Vector Processors when run standalone - causing a RSVD INST FAULT.

EVKAM  VAX MEMORY USER MODE TEST, L2R, 12.0(46)
            6.1 Crashes a 8600/8650 or 8200
            5.0 fails on KA820 with 16mB(8 arrays), or MS820-BA
            errors if running vaxsim , crashes a 8600
EVKAN  KA800 MEMORY INTERFACE PROGRAM, L3, 1.0(32)
EVKAP  KA800 INTERFACE PROGRAM, L2R 1.2(33)
EVKAQ  VAX INST.EXER. PART 1, L2, 6.0(46), 6.1(52)
EVKAR  VAX INST.EXER. PART 2, L2, 6.0(46), 6.1(52)
EVKAS  VAX FP INST.EXER. PART 1, L2, 6.1(47), 6.2(52)
            3.5 gives Machine Check on 6400 Rev K.
EVKAT  VAX FP INST.EXER. PART 2, L2, 6.0(46), 6.1(51), 6.2(52)
EVKAU  VAX PRIV.ARCH.EXER. PART 1, L3, 6.0(46), 6.1(52)
EVKAV  VAX PRIV.ARCH.EXER. PART 2, L3, 6.0(46), 6.1(52)
EVLBA  VSDP FUNCTIONAL TST SUPPORT, 1.0(17) - LASTSEEN17?
EVMAA  TE16,TS11,TU45,77,78,80 RELIAB, L2, 14.0(28) - LASTSEEN41
            Only TU77/78 TE16 support on vms4
            SIE says need EVFL1 for B port, not certain true????
            12.1 Density reported incorrectly,use drive reg's
                 Function reported wrong,use drive reg's
                 TST:2 st:0 err:3 "rd rev sh. fail" when under VMS
EVMAB  TM03-TE16/TU45,77 FUNCION TIMER, L3, 5.4(17) - LASTSEEN41
            5.4 Prints rev=5.2
            5.2 TST:15"gap stop half" err if pertec ctl m is rev g
                TST:18 fails on tu77/11750 if escaa came from disk
                TST:6"read from bot" error if m8490 >= rev L
                TST:6 intermittently runs off supply reel
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EVMAC  TM03/TE16,TU45,77 CONTROL LOGIC, L3, 3.4(24) - LASTSEEN41
            3.4 TST:19 fails twice  , opi set too soon
            3.3 TST30,31,32 fail if RH780 has M8274
                TST:48 err:9 intermit failures on tu77
                TST:18 st:1 err:2 calls out m8903 should be m8905
                TST:15,19,20 err:12 intermit if tu77 and ra8x
                TST:44 timeout.Patch D 64 100
                Intermittent on tu77 if ds> booted from disc
EVMAD  TS11 SUBSYSTEM REPAIR, L3, 2.0(17) - LASTSEEN41
            2.0 TST:15 err:5 if m8964 < revc.Patch d/b dcac 88
                TST:28 may fail without master output tape
EVMAE  TM78/TU78 CONTROL LOGIC, L3, 1.4(28) - LASTSEEN41
            NOTE Disable the port not being tested
            Set ev fl 1 when testing port B
            1.3 Gives 'Error loading TM78 microdiag/code, see TT for cpu
            1.3 Hangs if system disc & TM78 on same RH
                TST:8 fails when testing port b
                TST:7 onwards fail if new RH780 module (M8274)
                TST:13 hangs if system disk is RA60/81
EVMAF  TS05 FUNCTIONAL, L2R, 1.1(20) - LASTSEEN41
            1.1 TST4 fails if tape not mounted prior to RUN ExSAA
EVMAG  TS05, L3, 1.0(17) - LASTSEEN41
EVMAH  TS05, L3, 1.0(17) - LASTSEEN41
EVMAI  TS05, L3, 1.0(17) - LASTSEEN41
EVMAJ  TS05, L3, 1.1(20) - LASTSEEN41
EVMBA  TU81 DATA RELIAB, L2R, 7.3(46)
            5.0 Will not run under VMS 4.6 (TUDRIVER bug)
            4.2 for BI do DS>ATT DWBLA HUB BLAn
            2.0 Fails TST:2 at eot under vms
            Corrupts VMS, causes "unknown entries" in errorlog
EVMBB  TU81 FRONT END/HOST FUNCTIONAL, L3, 6.4(46)
            3.2 for BI do DS>ATT DWBLA HUB BLAn - not as in helpfile
            Fails TST:5 if BI controller is attached as DW1
EVMBD  TU80 FUNCTIONAL DIAG PART 1, L3, 1.2(24) - LASTSEEN44
            1.0 TST:13 does not respond to ^C for several seconds
EVMBE  TU80 FUNCTIONAL DIAG PART 2, L3, 1.3(24) - LASTSEEN44
            1.0 TST:12 st:0 err:12 drive fails to switch into
                high speed mode on a space command.
                                        Patch SET BASE EB3C
                                        D/B 414 D1 (was B1)
EVMCA  VAX BASED DX20 REPAIR LEVEL PART 1, L3, 2.1(23) - LASTSEEN42
EVMCB  VAX BASED DX20 REPAIR LEVEL PART 2, L3, 2.3(24) - LASTSEEN42
            2.1 Will not work on unit number greater than 0
                TST:12 fails unless TST:11 run first
EVMCC  VAX BASED DX20 FUNCTIONAL DIAGNOSTIC, L3, 1.2(24) - LASTSEEN42
            1.1 Will not work on unit number greater than 0
EVMCD  VAX BASED DX20 RELIABILITY DIAGNOSTIC, L2R, 1.1(23) - LASTSEEN42
EVMDA  TK50 DATA RELIABILITY, L2R, 4.1(46)
            1.0 May leave driver in an unknown state
EVMDB  TK50 FRONT END/HOST DIAGNOSTIC, L3, 1.0(22) - LASTSEEN41
            1.0 Must LOAD then ATTACH then START
EVMDD  TK50 FUNCTIONAL DIAGNOSTIC, L3, 2.1(33)
EVMEA  TM32 DATA RELIABILITY, L2R, 3.0(46)
EVMEB  TM32 FUNCTIONAL DIAG. PART 1, L3, 3.0(46)
EVMEC  TM32 FUNCTIONAL DIAG. PART 2, L3, 3.0(46)
EVMFA  KDM70/KCM44 TAPE DIAGNOSTIC, L2R, 1.0(47), 1.1(49)
EVMFB  KDM70/KCM44 TAPE DIAGNOSTIC, L2, 1.0(47), 1.1(49)

EVQBL  STANDALONE DRIVER FOR ESDIC, 1.0(17) - LASTSEEN17?
EVQDB  LOADABLE DRIVER FOR RP04/5/6, 2.0(17) - LASTSEEN41
EVQDD  LOADABLE DRIVER FOR TU58, 1.0(17) - LASTSEEN41
EVQDL  LOADABLE DRIVER FOR RL02, 2.0(17) - LASTSEEN41
EVQDM  LOADABLE DRIVER FOR RK06/7, 2.0(17) - LASTSEEN41
EVQDN  LOADABLE DRIVER FOR DN11, 2.0(17) - LASTSEEN41
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EVQDQ  IDC STANDALONE DRIVER, 1.0(17) - LASTSEEN41
EVQDR  LOADABLE DRIVER RM0X/80/RP7, 3.5(17) - LASTSEEN41
EVQDV  STANDALONE DRIVER FOR DV11, 1.0(17) - LASTSEEN41
EVQDY  LOADABLE DRIVER FOR RX02, 1.0(17) - LASTSEEN41
EVQEM  LOADABLE DRIVER FOR ML11, 1.1(17) - LASTSEEN41
EVQIB  LOADABLE DRIVER FOR IEC11-B, 1.0(17) - LASTSEEN41
EVQIE  LOADABLE DRIVER FOR IEC11-A, 1.0(17) - LASTSEEN41
EVQKM  LOADABLE DRIVER FOR KMC11-B, 2.0(17) - LASTSEEN41
EVQOA  DR11C DIAG DRIVER, 1.0(17) - LASTSEEN41
EVQOB  DN11 ACU STANDALONE DRV, 1.0(17) - LASTSEEN32
EVQSB  ISB11A DEVICE DRIVER(SBDRV), 1.0(17) - LASTSEEN32
EVQTF  LOADABLE DRIVER FOR TU78, 1.1(17) - LASTSEEN41
EVQTM  LOADABLE DRIVER FOR TM03-TE16/TU77, 2.0(17) - LASTSEEN41
EVQTS  LOADABLE DRIVER FOR TS11, 3.0(17) - LASTSEEN41
EVQUE  UBE DRIVER, 1.0(17) - LASTSEEN17?
EVQVS  LOADABLE DRIVER FOR VS11, 1.0(17) - LASTSEEN34
EVQXA  LOADABLE DRVR FOR DR11-W/DF11, 1.0(17) - LASTSEEN41
EVQXC  LOADABLE DRIVER FOR COM IOP, 1.0(17) - LASTSEEN41
EVQXD  DMP11 DIAG DRIVER, 1.0(17) - LASTSEEN41
EVQXF  LOADABLE DRIVER FOR DR780, 2.0 - LASTSEEN17?
EVQXM  LOADABLE DRIVER FOR DMR11/DMC11, 1.0(17) - LASTSEEN35
EVRAA  RP,RK,RM,RX,TU58 RELIABILITY, L2, 13.2(23) - LASTSEEN44
           13.1 RL and RX cause UNEXPECTED INTERUPT on 780's
           12.0 On multi pass only get error count of final pass
           EV fl 2 may not work
           SEC:conv will not work on essaa 6.5 or later
EVRAC  RP,RK,RM,RX,TU58 FORMATTER, L2, 7.3(24) - LASTSEEN44
           NOTE See RP07 tech-tips
           6.1 RP07 sec:format tst:3 st:0 err:2-scan spec. area
               RP07 HDA's in 18bit must be reformatted under VMS
           6.0 In user mode rk07 may go unsafe,needs fco to M7904
               For non-interleaved rp07's.Patch set base 7ebc
                                                    dep/b 3a 6
EVRAD  DISK FUNCTIONAL DIAG, L2, 2.2(24) - LASTSEEN41
           2.2 Intermittent INVALID-DISK-ADDR on RM03/05
           2.1 Fails when run offline on 11730
           1.1 Tests dual ported disks if sec:nowrite is run
EVRAE  GENERIC MSCP DISK EXERCISER, L2R, 4.5(47), 4.6(48), 4.7(49)
           The disk must be mounted prior to running the diagnostic
           and selected by SEL/NOALLOCATE DUxx
     3.2 Compare errors on KDM70

***** EVRBA thru EVRFA may fail on 8600 if /QA is used *****
EVRBA  RP0x FUNCTIONAL, L3, 5.0(17) - LASTSEEN41
           5.0 May fail tst:11 st:0 err:1 unless dual ported
               drives are selected first
EVRCA  DCL/RP04,5,6 REPAIR, L3, 6.2(26) - LASTSEEN41
           6.0 TST:15 fails intermit
           Will fail if started from tst:7
           Fails TST22-38 if M8274 in RH780
EVRDA  RM03,RM05,RM80  DISKLESS, L3, 4.2(17) - LASTSEEN41
           TST:73 fails if new type rh780 (M8274)
EVRDB  RM03,RM05 FUNCTIONL TEST, L3, 3.1(17) - LASTSEEN41

**A DMA device in front of RK611 may cause data lates under VMS**

EVREA  RK611 PART A, L3, 5.0(17) - LASTSEEN41
EVREB  RK611 PART B, L3, 5.0(17) - LASTSEEN41
EVREC  RK611 PART C, L3, 5.0(17) - LASTSEEN41
EVRED  RK611 PART D, L3, 5.0(17) - LASTSEEN41
EVREE  RK611 PART E, L3, 5.0(17) - LASTSEEN41
```


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```
EVREF  RK06,07 DRIVE FUNCTIONAL PART 1, L3, 6.0(17) - LASTSEEN41
            6.0 If oper flag set will not make error free pass
            Fails with mm enabled
EVREG  RK06,07 DRIVE FUNCTIONAL PART 2, L3, 4.0(17) - LASTSEEN41
            4.0 Fails with mm enabled
EVRFA  RL02 SUBSYSTEM FCTNL DIAG, L3, 3.1(19) - LASTSEEN41
            3.1 Intermit error tst:17 drive not rdy on 11750
EVRGA  RM80 FORMATTER, L3, 2.1(24) - LASTSEEN41
            2.0 May give invalid disk address error under vms
            On idc/r80 "HDR NOT FND" due to bad media D/W 8B82 31
EVRGB  RM80 FUNCTIONAL DIAG, L3, 1.1(17) - LASTSEEN1
EVRHA  RP07 FRONT END DIAG, L3, 2.2(17) - LASTSEEN41
            2.2 Problem on cyl 630?, set ev fl 18, run scanner.
            TST:17 fails "WAS FF00,S/B 0000" if dual-ported
EVRHB  RP07 FUNCTIONAL DIAG, L3, 1.2(17) - LASTSEEN41
            1.2 TST:15 errors intermittent
            TST:9 st:0 err:5 seek timout.Patch D/W 4956 5AD7
EVRHC  RP07 DUAL PORT CONTR DIAG, L3, 1.0(17) - LASTSEEN41
EVRIA  RX02 SUBSYSTEM REPAIR, L3, 2.1(23) - LASTSEEN44
EVRJA  ML11 DIAG, L3, 1.1(17) - LASTSEEN41
            1.1 ECO needed to ml11.see documentation
EVRJB  ML11 EXERCISER, L3, 2.1(17) - LASTSEEN41
EVRLB  RA60,80,81 FORMATTER, L3, 8.4(46), 8.5(48)
            4.0 Help file wrong, use ATT RA60 DUA DJA0
EVRLF  UDA50/KDB50 BASIC SUBSYS DIAG, L3, 10.5(46), 10.6(48)
     9.3 Shows inaccurate KDB50 module revisions
EVRLG  UDA50/KDB50 DISK DRIVE EXERCISER, L3, 10.4(46), 10.5(48)
EVRLJ  UDA50/KDB50/KDM70 SUBSYSTEM EXERCISER, L3, 4.5(47), 4.6(48)
     2.1 Compare errors on KDM70
EVRLK  BAD BLOCK REPLACE UTILITY, L3, 4.4(46), 4.5(48)
EVRLL  VAX ERRORLOG UTILITY, L3, 3.4(46), 3.5(48)
EVRLM  KDM70 EEPROM UPDATE/UTIL, L3, 1.7(46)
EVRLN  KDM70 DUP CONTROL PROGRAM, L3, 1.7(46)
EVRMA  RC25 DISK EXERCISER, L3, 3.2(24) - LASTSEEN44
            3.2 May hang after ^C in INIT section
            3.0 Trap thru vector 110 in default mode
EVRMB  RC25 FRONT END TEST, L3, 3.1(23) - LASTSEEN44
EVRMC  RC25 DISK FORMATTER, L3, 3.1(24) - LASTSEEN41
EVRMD  RC25, L2R, 2.0(18) - LASTSEEN18?
EVRNA  RUX50 EXERCISER, L2R, 1.0(21) - LASTSEEN21?
EVRNB  RUX50 EXERCISER, L3, 1.0(19) - LASTSEEN41
EVRND  KFBTA DISK FORMATTER, L3, 1.3(29) - LASTSEEN44
EVRNE  KFBTA DISK EXERCISER, L3, 1.2(26) - LASTSEEN44
EVRVA  RV20 FUNCTIONAL, L3, 3.4(46)
EVRVB  RV20 DIAGNOSTIC, L2R, 3.4(46)
EVRVC  RV60/20 DUP DIAG., L2R, 1.3(46)
EVRVG  RV64 DIAG., L3, 1.5(46), 1.6(47)
EVSBA  VAX AUTOSIZER, L3, 7.9(47), 7.10(49), 7.11(51)
            6.11 Load device can get renamed if KDB50 and DEBNAs on 8800
     X6.7 may hang, when sizing HSCs
            5.1 calls DHU,DMF and DMD all TX
            May get confused on 8800 with 4xNBIB's
            2.0 Fails to attach RA60 if RUX50 present
            Doesn't like 11780+DZ11+VT1xx at 9600
            1.8 HALTS @10173 if a m/t on RH
EVSBB  VAX ONLINE AUTOSIZER, L1, 4.0(43) - LASTSEEN45
EVSCA  DY32 DIS DIAG MONITOR, L1, 2.0(17) - LASTSEEN41
EVTAA  VAX TERMINAL DIAGNOSTIC, L2R, 10.1(23) - LASTSEEN32
EVTBA  VAX TERMINAL EXERCISER, L2R, 9.1(23) - LASTSEEN32
EVTCA  VSV11 DISPLAY LEVEL 2 DIAG, L2, 1.0(17) - LASTSEEN32
EVTCB  VS11 LEVEL 3 DIAG, L3, 1.0(17) - LASTSEEN41
EVTDA  11C03 SYSTEM DIAG, L2R, 2.0(17) - LASTSEEN17?
```


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```
EVUCA  VAX 6000 EEPROM UTILITY, L3, 2.1(47), 2.2(48), 2.4(51), 2.5(52)
EVUCM  KFMSA EEPROM UTILITY, L3, 1.6(47), 1.7(48)
     1.6 and earlier corrupt DSSI node IDs and report
           4 errors.
EVUCN  KFMSA PEEK AND PROBE UTILITY, L3, 1.0(44)
EVWAA  VS100 ONLINE FUNCT DIAG, L2R, 3.0(18) - LASTSEEN32
EVWAB  VS100 OFFLINE FUNCT DIAG, L3, 3.0(18) - LASTSEEN41
EVXBA  VAX Bus Interaction Prog, L2R, 5.1(17) - LASTSEEN17?
           5.1 Needs pswapm priveledge see fiche for quotas
           Does not support newest options(RM05,RAXX)
EVXBB  VAX System Diagnostic, L2R, 10.1(44) - LASTSEEN45
           7.0 Read fiche, EVKAC TST:47 fails on 785/8600 with FP
EVXCI  VAX CI EXERCISER, L2R, see CIExxx
UETP User Environment Test Program
               Fails on DMB32 if firmware <rev5
VMB.EXE VAX PRIMARY BOOTSTRAP, 5.5(46)
 The version of VMB is normally identified by its size.
 New ones can be identified by DUMPing the last 2 blocks and looking at
 the ASCII comments.
       5.4-2 = 86(decimal) blocks
   This version (86 blocks) is NOT COMPATABLE with
   versions of VMS released before VMS 5.4
       5.2   = 75(dec)blocks,
         5.0   = 72(dec)blocks, 9000(hex)bytes

************************************************************
****** Anydriver - do a $ANALYZE/IMAGE to find revision ******
************************************************************
BLDRIVER  VMS I/O DRIVER FOR ESDIC, 1.0(17)
CXDRIVER  VMS CI CONTROLLER CLASS DRIVER, 5.0(17), 6.3(24)
CYDRIVER  VMS CI RESPONDER CLASS DRIVER, 4.1(17), 6.1(22)
DNDRIVER  VMS DN11 DEVICE DRIVER, 3.0(17)
DVDRIVER  VMS DV11 DEVICE DRIVER, 4.0(17)
EMDRIVER  VMS ML11 DRIVER, 1.1(17)
FPDRIVER  VMS FEPCM DEVICE DRIVER, 2.4(17)
GSDRIVER  VMS VS70 DEVICE DRIVER, 3.1(17)
RCDRIVER  VMS DR11C DEVICE DRIVER, 2.0(17)
TTDRIVER  VMS DZ32 DIAG TERMINAL DRIVER, 1.0(17)
UETML1100 VMS ML11 ICP FOR UETP
UKDRIVER  VMS KCT32 DEVICE DRIVER, 1.04(17), 1.0(19)
       No , I don't know why rev went down!
URDRIVER  VMS DR70 DIAG DRIVER, 3.1(17), 3.2(33)
       ** No VMS4 support - s'funny we get a new release on (33)!
VBDRIVER  VMS VS100 DIAG DRIVER, 1.2(17)
       EVNDX18 claims 1.2 is new , watch out
VSDRIVER  VMS VS11 DEVICE DRIVER, 1.0(17)
XCDRIVER  VMS COM IOP DEVICE DRIVER, 1.0(17)
XDDRIVER  VMS DMP11 DEVICE DRIVER, 1.0(17)
XPDRIVER  VMS PCL11 DEVICE DRIVER, 1.0(17)
YGDRIVER  VMS M8201/M8206 DRIVER, 3.18(17)
YODRIVER  VMS KMC11/KMS11 DRIVER, 1.0(17), 2.0(34)
       EVNDX22 claims 1.2 is new, watch out
YYDRIVER  VMS KMS11-BD DRIVER, 1.0(17)
```


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12.2 XXDP, PDP diagnostics

This section by Brian Hailstone...

Revision information: Revised March 1993

12.2.1 A quick guide to building a DECX11.

This section originally by Vic Taylor...

1. MDL is the command to select a particular module, module names are four letters the last letter being the revision. So if you enter a question mark as the fourth letter it will use what ever one is on the disc. e.g. RLA? would select the RL02 module from your disk, this would be file XRLA??.OBJ on the disk.
2. DVA is the command to set the device address for the last MDL selected, you only need enter this if it is non-standard or is a floating address.
3. VCT is the command to set the vector address for the last MDL selected, you only need enter this if it is non-standard or is a floating address.
4. DVC is the command to set the device count for the last MDL selected, i.e if you have 2 RL02's you enter 2 .
5. SR1 is the command to set the SR1 for the last MDL selected. SR1 is used to pass information to the module when it is running, e.g. DZ11 baud rate, LTC frequency, whether you want to use Paper Tape reader or Punch. The detail of how to use SR1 for each module can be found on the fiche for that module.

12.2.1.1 An example DECX11 build

```
.R DXCL          (run the Decx configurator/linker)

DXCL XXDP V2 DEC/X11 CNF/LNK REVISION H
RESTART:006606

DO YOU WANT HELP?(Y <CR> OR JUST <CR>)

*CNF/NP          (enter config mode, /NP means NOPROMPT it is much
                 quicker and easier to use)

MONITOR :        You now have to enter the monitor for the cpu it is to
                 run on as follows :-

                 C = 11/03/04/05/23/34/40/45 and 11/24 if no KT24.
                 D = 11/60 only
                 E = 11/44/70/84 and 11/24 if it has KT24.
                     (Must be XMONF0 or later for 11/84)

                 Q = 11/23+/53/73/83      (i.e 22bit Qbus)

        You now select the modules you require :-


*MDL CPA?        Select CPU test, ok on all systems

*MDL CPB?        Select EIS tests, ok on most systems

*MDL KWA?        Select LTC, ok on most systems

*SR1 5           (sets the clock to 50 Hz with messages every 15mins)

*MDL RLA?        Select RL01/2 module

*DVC 2           (the number of devices,
                  NOT bit pattern for devices present)

*MDL DZA?        Select DZ11 module
```


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```
*DVA 160100      (sets DZA? address)

*VCT 300         (sets DZA? vector)

*SR1 400         (sets DZA? switch register 1)

*SAVC DL0:DECX11.CNF    Save the configuration table.
                        (if you save the CNF before linking it
                         saves the question marks otherwise it
                         saves the module rev's it actually uses)

DONE

*LINK DL0:DECX11.BIN=DL0:XMON??.LIB     (Build the DECX11)

SYSTEM SIZE:160000       (If you have 28Kw or more it is always 160000)

MAKE OUTPUT READY.WRITE ENABLE
TYPE <R> WHEN READY.

PASS 1

TRANSFER ADDRESS: 002366
LOW LIMIT: 000000
HIGH LIMIT: 072130

PASS 2

LINK DONE
*EXIT            (Leave DXCL)
```

12.2.1.2 Some commonly used Decx modules.

```
BMH?    M9312    (SR1 MUST BE non zero,
                  typically a value of 1 will work)
CPA?    ALL CPU's
CPB?    ALL CPU's except 11/05/20 and 11/03/40 without EIS option
DHA?    DH11
DLA?    DL11
DUB?    UDA50 (RA disks)
DZA?    DZ11
FPB?    FLOATING POINT
KWA?    LINE TIME CLOCK (set SR1 = 5 for 50Hz and message every 15mins)
LPA?    LP11 LINE PRINTER
PCC?    PC05     (Not worth including)
RKA?    RK05
RLA?    RL01/2
RKB?    RK06/7
RMD?    RP05/6 and RM02/3/5      (SR1 MUST = 200 FOR 11/70)
RXA?    RX01
RXB?    RX02
TMA?    TU10/TS03/TE10
TMB?    TE16/TU16/45/77
TSA?    TS11/TU80/TSV05
TUC?    TU81/TU81E
UAC?    DEUNA
```

12.2.2 XXDP+ V2

XXDP V2 can boot two monitors (XXDPSM or XXDPXM). The "SM" or Small monitor is for systems that are 28k or smaller in size, the "XM" or Extended monitor is for systems larger than 28k. The "SM" monitor works like the monitor of XXDP+ V1 and will run all programs written for V1. The "XM" monitor offers the new features advertised in XXDP V2. By default you will boot up the "XM" monitor provided the system has enough memory and memory management capability.

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12.2.2.1 Start-up file BOOT.CCC

At boot time, a start-up file BOOT.CCC will be executed as a chain file. If this file does not exist, there will be no warning message, boot will continue and by default the "XM" monitor will be booted up. If the file exists, it must contain one of the two commands listed below. Only one of the two commands may be used at a time and it should be on the first line of the file with no leading spaces. If the file does not contain one of the two commands it will boot up the "XM" monitor. Note, if the system does not have more than 28K worth of memory or memory management capability the "SM" monitor will be booted up.

```
SM - Boots the "SM" monitor.

QUIET - Boots "XM" monitor in UFD mode. (SYSTEM.CCC must exist)
```

12.2.2.2 SMALL MONITOR (XXDPSM)

```
The following are legal commands :  (format of each command is shown)

    C  -    run a batch job (chain)

    C                    C filename.CCC[/switches]

    D  -    list directory of load medium

                 D[/L][/F]          "/L" switch = on a LP:
                                    "/F" switch = in a short form.

    DAte    -  inspect or set the current system date.

               (For more information see "HELP DATE")

    E  -    enable alternative drive for system device

                 E n                where n is the new drive number

    H  -    type help information about XXDP V2

                 H[/L]              "/L" = print on a LP:

    L  -    load a program

                 L filename[.ext]

            Example:
            .L DIAG                 (load DIAG.BI?)
            .L ZDJCA2.NEW           (load ZDJCA2.NEW)

    R  -    run a program

                 R filename[.ext] [addr]

    S  -    start a program

                 S [addr]

    VT -    toggles the console terminal type between video and hard copy
            (The default terminal type is hard copy)
```

12.2.2.3 EXTENDED MONITOR (XXDPXM)

```
The following are legal commands : (format for each command is shown)
     (Letters shown in upper case are required to make a command unique)

    Boot    -  directs monitor to boot another XXDP device

                 Boot dev:


    BOOTSm  -  directs monitor to boot up the small monitor.

                 BOOTSM
```


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COpy - transfer files and maintenance operations

```
COpy[/BOOT   ] input-filespec output-filespec
    [/FILES  ]
    [/DEVICE ]
    [/DELETE ]
```

```
Examples:
.COPY A.BIN DY0:      (Copy A.BIN from system device to DY0:)
.COPY/BOOT DM0: DM1:   (Copy monitor from DM0: to DM1:)
.COPY/FILES DL0: DL1:  (Copy all files from DL0: to DL1:)
.COPY/DEVICE DY0: DY1: (Copy device image from DY0: to DY1:)
```

Chain - execute a batch, or chain file. The file must be a .CCC

```
CHAIN filespec[/switches]
```

CLear - Clears the SM and XM flags. When these flags are cleared they allow the monitor to check bit 12 of location 52 before running any program. If bit 12 is set the program will be run under the extended monitor. If bit 12 is not set then the program will be run under the small monitor.

Note :- On boot up (by default) these flags are cleared and can be set by issuing the DEFSM or DEFXM command only.

DATE - inspect or to set the current system date

```
DATE dd-mmm-yy      (Default date is set to 01-JAN-84)
```

```
Example (setting date):
.DATE 18-MAY-83
```

```
Example (obtaining date):
.DATE
18-MAY-83
```

DElete - deletes the file(s) that are specified.

```
DElete[/NOREWIND] filespec
      [/NONAMES ]
```

```
Example:
.DELETE DK0:ABC.BIN
.DELETE/NONAMES DK0:ABC?.BIN  (No file names will print)
.DELETE/NOREWIND *.TXT        (No tape rewind between files)
```

Directory - list all files on a XXDP device.

```
DIRECTORY[/PRINTER]
         [/FAST]
```

```
where
     /PRINTER = print on LP:
     /FAST    = show in short form
```

Enable - enable alternative drive for system device

```
E n     where n is the new drive number
```

Help - types HELP.TXT which contains help on XXDP V2

```
H[/PRINTER]
```


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```
Help          =  Displays topic list
Help ?        =  Displays topic list
Help *        =  Displays help on all Topics
Help Topic    =  Displays help on that Topic
Help To*      =  Displays help on all topics
                 starting with the letters "To"
```

Note : To exit help, simply type in EXit or a carriage return.

INItialize - initialize device directory into XXDP format.

```
INITIALIZE device:      CAUTION: All data on device
                                 is lost!
```

Load - load a file into memory

```
LOAD filespec

Example:
.LOAD DIAG              (load DIAG.BI?)
.LOAD ZDJCA2.NEW        (load ZDJCA2.NEW)
```

Print - Print contents of files on the specified device on LP:

```
PRINT[/NOREWIND] filespec

Example:
.PRINT DY0:SYSTEM.CCC
.PRINT/NOREWIND MS1:*.TXT
```

REname - change the file specification of an existing file

```
RENAME input-filespec output-filespec

Example:
.RENAME DX1:DIAG.OLD=DX1:DIAG.BIN
```

Run - load and start a program that is stored on system device.

```
RUN filespec    [addr]

Examples:
.RUN UPD2               (load/start UPD2.BIN)
.RUN SAMPLE.XXX         (load/start SAMPLE.XXX)
.RUN FXDIAG 204         (load/start FXDIAG.BI? at location 204)
```

SEt - changes device characteristics and system parameters.

```
SET [ device ]:condition
    [ item ]

where "device" = device whose characteristics are modified.
      "item" = system parameter that needs to be modified.

Examples:
.SET TT:SCOPE     (RUBOUT will delete characters - Default
                     is NOSCOPE)
.SET TT:NOSCOPE   (RUBOUT will enclose deleted characters
                     in backslashes)
.SET TT:QUIET     (Prevent system from echoing lines from a
                     chain file or from diagnostics that are
                     running from a chain file)
                     (Default = NOQUIET)
```

DEFSm - Sets the SM flag. After issuing this command all programs will be run under the small monitor until the CLEAR command is issued. Bit 12 of location 52 will not be checked at all and by default any program(s) run after this command is issued will be run under SM.

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```
            Note of caution :- If you plan to run only one program
            under SM and issue this command make sure you issue the
            "CLEAR" command after your program has completed running.
            Else by default every program will run under SM regardless
            of whether bit 12 was set or not.

DEFXm   -   Sets the XM flag. After issuing this command all programs
            will be run under the extended monitor until the CLEAR
            command is issued. Bit 12 of location 52 will not be
            checked at all and by default any program(s) run after
            this command is issued will be run under XM.

            Note of caution :- If you plan to run only one program
            under XM and issue this command make sure you issue the
            "CLEAR" command after your program has completed running.
            Else by default every program will run under XM regardless
            of whether bit 12 was set or not.

Start   -   start a file that has been loaded into memory via LOAD

                START [addr]        A starting address may be entered

Type    -   prints the contents of a file on the terminal

                TYPE[/NOREWIND] filespec

            Example:
            .TYPE/NOREWIND *.TXT

Version -   Prints information about the Extended monitor.

                Version
```

12.2.2.4 Differences

There are some major differences in V2.4 and all of the previously released versions of XXDP V2. The main difference is the way programs will be run from now on. In previous versions, programs were run under the same monitor that was displayed on boot up. i.e. if you booted the small monitor you ran all your programs under the small monitor. If you booted the extended monitor you ran all programs under the extended monitor. The problem with this was that you would have to reboot the other monitor if you had a program that ran on one and did not run on the other. In V2.4 (and following versions), this problem is solved, programs will be run after a check is made on bit 12 location 52 (after the program has been loaded) and if this bit is set the program will be run under the extended monitor. If this bit is not set, the program will run under the small monitor. Unlike the previous versions there will be no need to reboot. Bit 12 of location 52 should be set by using the "UPDAT" or "PATCH" utility. If UPDAT is used you might have to change the LOCORE of your program. Please ensure the "CLR" command is issued before loading the program and changing the locore.

Note

Look at the "DEFSM", "DEFXM" and the "CLEAR" commands in this help file if you are unable to set bit 12 by using the utilities.

12.2.2.5 Switches

```
These are not applicable to all commands
 - these switches are not system defaults
/PRINTER  = print on LP:
/NONAMES  = No file names will be shown
/NOREWIND = prevents tape rewinding between files
```


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12.2.2.6 UPDAT program

This program uses the same commands as UPD2. Commands SAVM and SAVE are no longer supported. The following command has been added to build bootable media. It will work with tapes or disks.

```
CREATE DY0:     (will create a bootable DY from your system media)

CAUTION : Do NOT use XXDP+ V1 to write to XXDP V2 media.
          XXDP V2 may read or write to XXDP+ V1.

NOTE :    The monitor only sizes to 124k words.

* For a detailed description of these commands see XXDP/DRS User Manual
```

12.2.3 XXDP Diagnostics Listing

This article updated by Brian Hailstone...

XXDP release 146 (92-D1 Jun 92).

Those diagnostics that are marked as unsupported will not be found on the latest XXDP distribution. If you need one of these diagnostics to test some of the older devices make sure you do not delete it from the diagnostic media on site.

Table 12–1: Utilities

Diagnostic Name	Functionality
DXCL.BIN	DECX Config Linker
PATCH.BIN	Patch Utility
SETUP.BIN	Setup Utility
SIZER.BIN	System Device Mapper (unsupported)
SIZER1.BIN	System Device Mapper (unsupported)
UPD1.BIN	Update Utility #1 V1 (unsupported)
UPD2.BIN	Update Utility #2 V1 (unsupported)
UPD3.BIN	Update Utility #3 XXDP (unsupported)
UPDAT.BIC	Update Utility V2
XTECO.BIN	Text Editor

Table 12–2: Diagnostics

Diagnostic Name	Functionality
AIBAA0.BIN	IBM 026 Punch Test (unsupported)
BKDMD0.BIC	1140/1135 T14 Traps Test (unsupported)
BKEAB0.BIC	1140/1135 KE11F Instruction Tests (unsupported)
BKEBA0.BIC	1140/1135 KE11F Exer (unsupported)
BKMAA0.BIN	1140/1135 1080 Basic Memory Timing
BKTAD0.BIC	1140/1135 KT11D Logic (unsupported)
BKTBB0.BIC	1140/1135 KT11D Keys (unsupported)
BKTCB0.BIC	1140/1135 KT11D Moves (unsupported)
BKTDC0.BIC	1140/1135 KT11D States (unsupported)
BKTFD0.BIC	1140/1135 KT11D Abort (unsupported)
BKTGD1.BIC	1140/1135 KT11D Exer (unsupported)
BQAAA0.BIC	1140/1135 Watchdog Timer (unsupported)
BQEAC1.BIC	1140/1135 KD11A CPU Diag (unsupported)
BVTAD0.BIN	1140 VT20 Diag (unsupported)
BZBBA0.BIN	RSX11 UETP (unsupported)
BZMAC0.BIN	RSTS/E UETP (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
CFPAB0.BIC	1145/1150/1155 FP11 #1 (unsupported)
CFPBB0.BIC	1145/1150/1155 FP11 #2 (unsupported)
CFPCB0.BIC	1145/1150/1155 FP11 #3 (unsupported)
CFPDC0.BIC	1145/1150/1155 FP11 #4 (unsupported)
CFPEB0.BIC	1145/1150/1155 FP11 #5 (unsupported)
CFPFB0.BIC	1145/1150/1155 FP11 #6 (unsupported)
CFPGC0.BIC	1145/1150/1155 FP11 #7 (unsupported)
CFPHB0.BIC	1145/1150/1155 FP11 #8 (unsupported)
CFPIB0.BIC	1145/1150/1155 FP11 #9 (unsupported)
CFPJB0.BIC	1145/1150/1155 FP11 #10 (unsupported)
CFPKB0.BIC	1145/1150/1155 FP11 #11 (unsupported)
CFPLB0.BIC	1145/1150/1155 FP11 #12 (unsupported)
CFPMB0.BIC	1145/1150/1155 FP11 #13 (unsupported)
CFPOD0.BIC	1145/1150/1155 FP11 #14 (unsupported)
CFPRC0.BIC	1145/1150/1155 FP11 #15 (unsupported)
CFPSD0.BIC	1145/1150/1155 FP11 #16 (unsupported)
CFPTE0.BIC	1145/1150/1155 FP11 #17 (unsupported)
CFPUD0.BIC	1145/1150/1155 FP11 #18 (unsupported)
CKBAB0.BIC	1145/1150/1155 SXT (unsupported)
CKBBB0.BIC	1145/1150/1155 SOB (unsupported)
CKBCC0.BIC	1145/1150/1155 XOR (unsupported)
CKBDC0.BIC	1145/1150/1155 MARK (unsupported)
CKBEC0.BIC	1145/1150/1155 RTT (unsupported)
CKBFD0.BIC	1145/1150/1155 Stack Limit Test (unsupported)
CKBGB0.BIC	1145/1150/1155 SPL Instruction Test (unsupported)
CKBHB0.BIC	1145/1150/1155 Registers (unsupported)
CKBIB0.BIC	1140/1145/1150/1155 ASH (unsupported)
CKBJA0.BIC	1140/1145/1150/1155 ASHC (unsupported)
CKBKA0.BIC	1140/1145/1150/1155 MUL (unsupported)
CKBLA0.BIC	1140/1145/1150/1155 DIV (unsupported)
CKBME0.BIC	1145/1150/1155 Traps Test (unsupported)
CKBNC0.BIC	1145/1150/1155 PIRQ Interrupt Test (unsupported)
CKBOA0.BIC	1145/1150/1155 States Test (unsupported)
CKBPB0.BIC	1145/1150/1155 Power Fail (unsupported)
CKBQB0.BIN	1145/1150/1155 Console Test (unsupported)
CKBRE0.BIC	1145/1150/1155 Proc Parity (unsupported)
CKTAB0.BIC	1145/1150/1155 KT11C Logic 1 (unsupported)
CKTBC0.BIC	1145/1150/1155 KT11C Logic 2 (unsupported)
CKTCA0.BIC	1145/1150/1155 KT11C Keys (unsupported)
CKTDA0.BIC	1145/1150/1155 KT11C MTPD/I (unsupported)
CKTEB0.BIC	1145/1150/1155 KT11C MTFD/I (unsupported)
CKTFD0.BIC	1145/1150/1155 KT11C Abort Test (unsupported)
CKTGE0.BIC	1145/1150/1155 KT11C Exer (unsupported)
CKRDX0.BIC	1145/1150/1155 KR11C Abort (unsupported)
CMFAF0.BIC	MS11/MF11/MA11 Parity Memory Test
CMSBB0.BIN	1145/1150/1155 MS11 Memory Test
CQKAC0.BIC	1145/1150/1155 MUL/DIV Exer (unsupported)
CQKCG1.BIC	1140/1145/1150/1155 Inst Exer (unsupported)
DGTAD2.BIN	GT40 Inst Test 1 (unsupported)
DGTBD0.BIN	GT40 Inst Test 2 (unsupported)
DGTCC0.BIC	GT40 Visual Test (unsupported)
DGTDD0.BIN	GT40 Rom Verify (unsupported)
DGTED0.BIN	GT40 Quick Verify (unsupported)
DGTGB0.BIC	GT40/GT44 Visual Display Test (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
DVTAD0.BIN	VT20 Diag Test (unsupported)
DOAA0.BIN	T1-Branch Test
D0BA0.BIN	T2-Con Branch Test
DOCA0.BIN	T3-Unary Test
DODA0.BIN	T4-Unary & Binary
DOEA0.BIN	T5-Rotate Shift Test
DOFA0.BIN	T6-Compare Test
DOGA0.BIN	T7-Compare Not Test
DOHA0.BIN	T8-Move Test
DOIA0.BIN	T9-Bic and Bit Test
DOJA0.BIN	T10-Add Test
DOKA0.BIN	T11-Subtract Test
DOLA0.BIN	T12-Jump Test
DOMA0.BIN	T13-Jsr, Rts, Rti test
D6BA0.BIN	AA11 Calibration
D6DB0.BIN	VT06 Diag
D6FC0.BIN	LAB11
D8AB0.BIC	Unibus Tester (unsupported)
D8CA0.BIN	Rom Diode Matrix (unsupported)
EFPAA0.BIC	1145/1155/1170 FP11C Diag #1
EFPBA1.BIC	1145/1155/1170 FP11C Diag #2
EKBAD0.BIC	1170/1174 Cpu Diag Part #1
EKBBF0.BIC	1170/1174 Cpu Diag Part #2
EKBCD1.BIC	1170/1174 Cache Diag Part #1
EKBDE1.BIC	1170/1174 Cache Diag Part #2
EKBEE1.BIC	1170/1174 Memory Management
EKBFD1.BIC	1170/1174 Unibus Map
EKBGC0.BIC	1170/1174 Power Fail Test
EKBHA0.BIC	1170/1174 Diag Bootstrap (unsupported)
EMJAD0.BIC	1170/1174 MJ11 Memory Test
EMKAB0.BIC	1170/1174 MK11 Memory Test
EQKCE1.BIC	1170/1174 Cpu Inst Exer
ERHAE1.BIC	1170/1174 RH70 Controller
ERPKC0.BIN	1170 RP04 Mech R/W (unsupported)
ERPLB0.BIN	1170 RP04 Formatter (unsupported)
ERPMB0.BIC	1170 RP04 Verify (unsupported)
ERPNB0.BIN	1170 RP04 Excer (unsupported)
ERPPA0.BIN	1170 RP04 Logic #1 (unsupported)
ERPQA0.BIN	1170 RP04 Logic #2 (unsupported)
ERPSB0.BIN	1170 RP04 Diskless #1 (unsupported)
ERPTA0.BIN	1170 RP04 Diskless #2 (unsupported)
ERPUB0.BIC	1170 RP04 Func #1 (unsupported)
ERPVB0.BIC	1170 RP04 Func #2 (unsupported)
ERSAA0.BIC	1170/1174 RS03/RS04 Basic Function
ERSBC0.BIC	1170/1174 RS03/RS04 Drive Test
ERSCB0.BIC	1170/1174 RS03/RS04 Diskless
ERSDD0.BIN	1170/1174 RS03/RS04 Maint Mode Test
FFPAA1.BIN	1134 FP11A Diag #1
FFPBA0.BIN	1134 FP11A Diag #2
FFPCB0.BIC	1134 FP11A Diag #3
FKAAC0.BIC	1134 Cpu Test
FKABD0.BIC	1134 Traps Test
FKACA1.BIC	1134 EIS test
FKKAB0.BIN	1134 Cache

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
FKTAA0.BIN	1134 KT Basic Logic (unsupported)
FKTBA0.BIN	1134 KT Access Test Part 1 (unsupported)
FKTCA0.BIN	1134 KT Access Test Part 2 (unsupported)
FKTDA0.BIN	1134 KT Processor States (unsupported)
FKTFA0.BIN	1134 KT Exer (unsupported)
FKTGC0.BIC	1134 Memory Management Exer
FKTHB0.BIN	1134 Memory Management test
GKAAA0.BIC	1104 Cpu Test
GKABC0.BIC	1104 Traps Test
JDLAA0.BIC	1123 KDF11B SLU/DLV11J
JFPAA1.BIC	1123 FP11 #1
JFPBA1.BIC	1123 FP11 #2
JKDAD1.BIC	1123/1124 KTF11A (MMU)
JKDBD0.BIC	1123/1124 DCF11AA (CPU)
JKDCB0.BIC	1123/1124 KEF11AA (FP #1)
JKDDB0.BIC	1123/1124 KEF11AA (FP #2)
JKDEB0.BIC	1124 CPU Cluster Diag
JKDFB0.BIC	1124 Options Diag
JKDGA0.BIC	1123 KEF11B CIS Diag (unsupported)
JKDHB0.BIC	1123/1124 KEF11B CIS Diag
JKDIB0.BIC	1123 SLU/LTC Repair Test
JKDJB0.BIC	1123B CPU Cluster Test
JKL5B0.BIC	LCP-5 Cpu Cluster
JM9AB0.BIC	1124 Rom M9312
KFPAD0.BIN	1144 FP11F Part A
KFPBC0.BIN	1144 FP11F Part B
KFPCD0.BIC	1144 FP11F Part C
KKAAB0.BIN	1144 Cpu EIS
KKABD1.BIN	1144 Traps Test
KKACC0.BIC	1144 Power Fail Test
KKKAC0.BIC	1144 KK11B Cache Test
KKTAB1.BIC	1144 Memory Management Part A
KKTBD0.BIC	1144 memory Management Part B
KKUAE0.BIN	1144 UBI Map
KSGBB0.BIN	1144 CDSP for TU58 (unsupported)
KTMAC0.PAK	TM78/TU78 Data File
NAAAA0.BIN	SBC11/SBC21 AAV11 Diag
NAXAA0.BIC	SBC11/SBC21 AXV11C/ADV11C
NDLAA0.BIC	SBC11/SBC21 DLV11J Test
NDMAA0.BIC	SBC11/SBC21 DMV11 Micro Cont Test 1
NDMBA0.BIC	SBC11/SBC21 DMV11 Micro Cont Test 2
NDMCA0.BIC	SBC11/SBC21 DMV11 Line Unit Part 1
NDMDA0.BIC	SBC11/SBC21 DMV11 Line Unit Part 2
NDMEA0.BIC	SBC11/SBC21 DMV11 Line Unit Part 3
NDPVA0.BIC	SBC11/SBC21 DPV11 Func Test
NDRAA0.BIC	SBC11/SBC21 DZV11B DMA Test
NDRCA0.BIC	SBC11/SBC21 DRV11J Part 1
NDRDA0.BIC	SBC11/SBC21 DRV11J Part 2
NDUQA0.BIC	SBC11/SBC21 DUV11 Offline Test
NDURA0.BIC	SBC11/SBC21 DUV11 Offline RX
NDUSA0.BIC	SBC11/SBC21 DUV11 Timing RX
NDUTA0.BIN	SBC11/SBC21 DUV11 Offline TX
NDUUA0.BIC	SBC11/SBC21 DUV11 Offline Int
NDUVA0.BIC	SBC11/SBC21 DUV11 Offline Combined

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
NDVAA0.BIC	SBC11/SBC21 DLV11E Offline Test
NDVCA0.BIC	SBC11/SBC21 DLV11F Offline Test
NDZAA0.BIC	SBC11/SBC21 DZV11 Part 1
NDZBA0.BIC	SBC11/SBC21 DZV11 Part 2
NDZCA0.BIC	SBC11/SBC21 DZV11 Cable/Echo Test
NIBAA0.BIC	SBC11/SBC21 IPV11A Diag
NKAFA0.BIC	SBC11/SBC21 DRV11 Prog Enable Test
NKMAA0.BIC	SBC11/SBC21 MSV11D 0-124K Exer
NKMBB0.BIC	SBC11/SBC21 KMV11A Line Cont Test
NKMCA0.Blc	SBC11/SBC21 KMV11A Func Test
NKMDA0.BIC	SBC11/SBC21 KMV11A/KMV11B Logic Test
NKMEA0.BIC	SBC11/SBC21 KMV11B Line Cont Test
NKTCA0.BIC	SBC11/SBC21 KXT11CA Diag
NKWAA0.BIC	SBC11/SBC21 KWV11A Diag
NKXAB0.BIC	SBC11/SBC21 M8063 Diag
NQNAA0.BIC	SBC11/SBC21 DEUNA Diag
NRLGA0.BIC	SBC11/SBC21 RL11/RL211 Cont 1
NRLHA0.BIC	SBC11/SBC21 RL11/RL211 Cont 2
NRLIA0.BIC	SBC11/SBC21 RL01/RL02 Drive Test 1
NRLJA0.BIC	SBC11/SBC21 RL01/RL02 Drive Test 2
NRLKA0.BIC	SBC11/SBC21 RL01/RL02 Perf Exer
NRLLA0.BIC	SBC11/SBC21 RL01/RL02 Drive Compatability
NRQAA0.BIC	SBC11/SBC21 RQDX1 Exer
NRXDA0.BIC	SBC11/SBC21 RX02 Exer
NRXFA0.BIC	SBC11/SBC21 RX02 Func Controller
NTSAA0.BIC	SBC11/SBC21 TSV05 Cont 1
NTSBA0.BIC	SBC11/SBC21 TSV05 Cont 2
NTSCA0.BIC	SBC11/SBC21 TSV05 Cont 3
NTSDA0.BIC	SBC11/SBC21 TSV05 Cont 4
NTSEA0,BIC	SBC11/SBC21 TSV05 Data Relibility
NTUUA0.BIC	SBC11/SBC21 TU58 Exer
OEEAA0.BIC	1184 EEPROM UK-ENG Language
OEEBA0.BIC	1184 EEPROM DUTCH Language
OEECA0.BIC	1184 EEPROM FRENCH Language
OEEDA0.BIC	1184 EEPROM GERMAN Language
OEEEA0.BIC	1184 EEPROM ITALIAN Language
OEEFA0.BIC	1184 EEPROM SPANISH Language
OEEHA0.BIC	1184 EEPROM US-ENG Language
OKDAG0.BIC	1184 KDJ11B CPU Cluster
OKDBA0.BIC	1184 EA Rom Maint Utility
OKTAC0.BIC	1184 KTJ11B Diag
QDCSA0.BIN	1160 DSC exerciser (unsupported)
QFPAB0.BIN	1160 FP11E Floating Point #1 (unsupported)
QFPBB0.BIN	1160 FP11E Floating Point #2 (unsupported)
QFPCB0.BIN	1160 FP11E Floating Point #3 (unsupported)
QFPDB0.BIN	1160 FP11E Add/Sum/Mul/Div/Rot (unsupported)
QFPEA0.BIC	1160 FP11E Hardware Diag (unsupported)
QKDAE0.BIN	1160 KD11K Blt (unsupported)
QKDBA0.BIN	1160 Traps Test (unsupported)
QKDCA0.BIN	1160 Series CPU Exer (unsupported)
QKKAA0.BIN	1160 Cache Diag (unsupported)
QKTAB0.BIC	1160 Memory Management (unsupported)
QKUAA0.BIC	1160 WCS Diag (unsupported)
QKUBB0.BIC	1160 KD11K Micro Test (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
QM9AA0.BIC	1160 M9301YH Boot Test (unsupported)
QMCAA0.BIC	1160 Rom Bootstrap Test (unsupported)
RDTAC0.BIC	DT07 Unibus Switch
RIIAB0.BIC	IIST Stand Alone
RLPAB0.BIN	LPA11 System Exer
RLPBB0.BIN	LPA11/AA11 Diag Test
RLPCA0.BIC	LPA11/AR11 Diag Test Part 1 (unsupported)
RLPDA0.BIC	LPA11/AR11 Diag Test Part 2 (unsupported)
RLPEA0.BIC	LPA11/AR11 Diag Test Part 3 (unsupported)
RLPFC0.BIN	LPA11/DR11K Diag Test
RLPGC0.BIN	LPA11/KW11K Diag Test
RLPHA0.BIC	LPA11/LPS11 Diag Test Part 1 (unsupported)
RLPIA0.BIC	LPA11/LPS11 Diag Test Part 2 (unsupported)
RLPJA0.BIC	LPA11/LPS11 Diag Test Part 3 (unsupported)
RLPKC0.BIN	LPA11/AD11K Diag Test
RLPLA0.BIC	LPA11/DMC11 Diag Test Part 1
RLPMB0.BIN	LPA11/DMC11 Diag Test Part 2
RLPNA1.BIC	M8254 Field Diag
VAAAA1.BIC	LSI11 AAV11 Diag
VADAC0.BIC	LSI11 ADV11 Performance Test
VAXAB0.BIC	LSI11 AXV11C/ADV11C Diag
VADAC0.BIC	LSI11 MDE/T11 Part 1
VCDBB0.BIC	LSI11 MDE/T11 Part 2
VCDCB0.BIC	LSI11 MDE/T11 Part 3
VCDDB0.BIC	LSI11 MDE/T11 Part 4
VCLHD0.BIC	LSI11 DPV11 DCLT
VCMAA0.BIC	LSI11 CMQ11K CSS C.R. Test
VDHAE0.BIC	LSI11 DHV11 Func 1
VDHBE0.BIC	LSI11 DHV11 Func 2
VDHCE1.BIC	LSI11 DHV11 Func 3
VDLAB1.BIC	LSI11 DLV11J Diag
VDMAC1.BIN	LSI11 DMV11 Micro Diag #1
VDMBC0.BIN	LSI11 DMV11 Micro Diag #2
VDMCC1.BIN	LSI11 DMV11 Line Unit Diag #1
VDMDC0.BIN	LSI11 DMV11 Line Unit Diag #2
VDMED0.BIC	LSI11 DMV11 Line Unit Diag #3
VDPVC1.BIN	LSI11 DPV11 Func Test
VDRAC0.BIC	LSI11 DRV11B Diag Test
VDRBA0.BIN	LSI11 DRV11B Interproc Exer
VDRCC0.BIC	LSI11 DRV11J Part #1
VDRDB0.BIC	LSI11 DRV11J Part #2
VDVAD1.BIC	LSI11 DLV11E Offline Test
VDVCC1.BIC	LSI11 DLV11F Offline Test
VDZAD3.BIC	LSI11 DZV11 4 Line Async Part 1
VDZBE0.BIC	LSI11 DZV11 4 Line Async Part 2
VDZCB1.BIN	LSI11 DZV11 Cable and Echo Tests
VDZDA0.BIN	LSI11 DZV11 ITEP Overlay
VIBAB0.BIC	LSI11 IBV11A Diag
VIBBA1.BIC	LSI11 IBV11A (30K)
VKAAC0.BIC	LSI11 Macro Instr Exer
VKABB0.BIC	LSI11 EIS Instr Test
VKACC1.BIC	LSI11 FIS Diag
VKADC2.BIC	LSI11 Traps Test
VKAEB2.BIC	LSI11 DLV11 Serial Line Test

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
VKAFE0.BIC	LSI11 DRV11 Interface Test
VKAGA0.BIC	LSI11 EIS Diag (unsupported)
VKAHA1.BIC	LSI11 4K System Exer
VKAIB0.BIC	LSI11 Moves/String Inst
VKAJB0.BIC	LSI11 Decimal Inst Test
VKALA2.BIC	LSI11 Trap test (30K)
VKDAD0.BIN	PDT 11150 System Excer
VKDBA0.BIC	PDT 11130/11110 System Excer
VKMAC0.BIN	LSI11 KMV11A/KMV11B Logic Test
VKMBC0.BIN	LSI11 KMV11A Line Unit Test
VKMCB0.BIN	LSI11 KMV11A Func Test
VKMEB1.BIN	LSI11 KMV11B Line Unit Test
VKMHA0.BIN	LSI11 KMV11C Logic Diag
VKMJA0.BIN	LSI11 KMV11C Func Test
VKUAA0.BIN	LSI11 KUV11 LSI WCS
VKPAA0.BIC	LSI11 KPV11A Diag (unsupported)
VKWAC0.BIC	LSI11 KWV11A Diag
VM8AF0.BIC	LSI11 BDV11AA, KDF11BA/KDF11BB Diag
VMEAA0.BIC	LSI11 MCV11DA Data Ret Diag
VMEMA0.BIN	LSI11 MCV11DA Data Diag
VMJAB0.BIN	LSI11 MSV11J Memory Test
VMNAC1.BIC	LSI11 MNCAD Diag
VMNBB0.BIC	LSI11 MNCDI Diag
VMNCB1.BIC	LSI11 MNCKW Diag
VMNDA1.BIC	LSI11 MNCDA Diag
VMNEA1.BIC	LSI11 MNCDO Diag
VMNFC0.BIC	LSI11 Minc 11 Sizer
VMNGA0.BIC	LSI11 Minc 11 Chan Term
VMRAA0.BIC	LSI11 Minc 11 UV Prom/Ram (unsupported)
VMSAC0.BIC	LSI11 0-2 Meg Memory Test
VMSBD0.BIN	LSI11 0-2 Meg Q/V Test
VMXAA0.BIC	LSI11 MXV11A Diag
VMXBA0.BIC	LSI11 MXV11B Func
VNIAE0.BIC	LSI11 DEQNA/DELQA/DESQA Exer
VPCAG1.BIC	LSI11 IP11/IP300
VQAAD0.BIN	11V03 System Test (unsupported)
VRLAC0.BIC	LSI11 RLV11/RL01/RL02 Diskless
VRLBC0.BIN	LSI11 RLV12 Diskless
VTSAC0.BIN	LSI11 TSV05 Control 1
VTSBE0.BIN	LSI11 TSV05 Control 2
VTSCD0.BIN	LSI11 TSV05 Control 3
VTSDE0.BIN	LSI11 TSV05 Control 4
VTSED0.BIN	LSI11 TSV05 Data Reliability
VVSAB1.BIC	LSI11 VSV11 Diag
VVTAA1.BIN	VTV30J/VTV30H, VT30H Logic
VVTBA0.BIC	VTV30J/VTV30H, VT30H Display
VVTCA0.BIN	VTV30 Logic Test
YPTCB0.BIN	TC11 DecTape Formatter (unsupported)
ZAABA0.BIN	AA11A/AA11B/AA11C Scope Control
ZAACB1.BIC	AA11K Diag Test
ZADAC1.BIN	AD02/AD11 Diag Test (unsupported)
ZADBB0.BIN	AD01D Diag Test (unsupported)
ZADFA0.BIC	ADF11 Convergence Rate Test (unsupported)
ZADGA0.BIC	ADF11 Logic Diag (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZADHA0.BIC	ADF11 Analog Test (unsupported)
ZADIA0.BIC	AD02 Exer (unsupported)
ZADJA0.BIC	AD02 Logic Test (unsupported)
ZADKA0.BIC	ADF11 Hold Diag (unsupported)
ZADLB3.BIC	AD11K Perf Test (unsupported)
ZADQA0.BIC	ADQ32 Digital Diagnostic
ZADRA0.BIC	ADQ32 Clock Diagnostic
ZADSA0.BIC	ADQ32 Analog Diagnostic
ZAFAC0.BIC	AFC11 Diagnostic
ZARAB0.BIC	AR11 Diag Test 1 (unsupported)
ZARBB0.BIC	AR11 Diag Test 2 (unsupported)
ZARCB1.BIC	AR11 Wraparound Test 3 (unsupported)
ZBMAE0.BIC	BM792YA Bootstrap Loader Test (unsupported)
ZBMBA0.BIC	BM792YB Test (unsupported)
ZBMCA0.BIC	BM792YC Test (unsupported)
ZBMDJ0.BIC	BM873 Universal Restart Rom (unsupported)
ZBMHA0.BIN	BM792YH Test (unsupported)
ZBMKB0.BIN	BM792YK Test (unsupported)
ZCBAC0.BIN	CB11 Logic Test (unsupported)
ZCBHB0.BIN	CB11 Test Program (unsupported)
ZCDAD0.BIN	CD11 Card Reader Diag
ZCDBB0.BIN	CD11/CD20 Card Reader Diag
ZCLKC0.BIC	DMR11/DMC11 DCLT
ZCLMC0.BIC	DMP11/DMV11 DCLT
ZCMBB1.BIN	CM11F Card Reader Diag
ZCMJC0.BIN	CMR11/CMV11 Host Excer
ZCRAC0.BIN	CR11 Diag (unsupported)
ZCRBC0.BIC	CR11/CM11F Diag Test (unsupported)
ZCTAA0.BIN	CTS11JC 7 Bit ASCii
ZCTBA0.BIN	CTS11JC Hollorith
ZDAAA1.BIC	DA11 Window (unsupported)
ZDABA0.BIN	DA11 Exer (unsupported)
ZDAVA0.BIN	DAV11A/DAV11B Test
ZDBMA0.BIN	Rom Loader Test
ZDCAD0.BIN	DC11 Offline Diag Test (unsupported)
ZDCBB0.BIN	DC11 Online (unsupported)
ZDCLB0.BIN	DUP11 DCLT
ZDCOC0.BIN	DC11 ITEP Overlay (unsupported)
ZDFAC0.BIN	DU11/DFC11/DPAA/DFC11 Offline (unsupported)
ZDHAD0.BIC	DH11 Static Logic Test
ZDHBC0.BIN	DH11 Memory Test
ZDHCC0.BIC	DH11 trans/Reciever
ZDHDD0.BIN	DH11 Speed Logic
ZDHEC0.BIC	DH11 Char Length/Data
ZDHFC0.BIC	DH11 Single Line Data
ZDHGC0.BIC	DH11 Multi-Line Data
ZDHHC0.BIC	DH11 Auto Echo Logic
ZDHID0.BIC	DH11 Break/Half Duplex
ZDHJC0.BIC	DH11 Echo Test
ZDHKF0.BIC	DH11 Modem Control Diag
ZDHLC0.BIN	DH11 ITEP Overlay
ZDHMD2.BIC	DH11 Diag
ZDHND0.BIC	DH11 Data Reliability
ZDHUB0.BIC	DHU11 Func Part 1

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZDHVB0.BIC	DHU11 Func Part 2
ZDHWB0.BIC	DHU11 Func Part 3
ZDHXB0.BIC	DHU11 Func Part 4
ZDJAF0.BIC	DJ11 Logic Test (unsupported)
ZDJBG0.BIC	DJ11 Exer (unsupported)
ZDJDB0.BIN	DJ11 ITEP Overlay (unsupported)
ZDLAH0.BIN	DL11E/DL11C/DL11D Offline Test
ZDLBC0.BIN	DL11E Online Tests
ZDLCD0.BIN	DL11C/DL11D/DL11E Offline Test
ZDLDI0.BIC	DL11W/1144 MFM Diag
ZDLOD0.BIN	DL11 ITEP Overlay (unsupported)
ZDMAD0.BIN	DM11A Logic Test (unsupported)
ZDMBD0.BIC	DM11A Data Test (unsupported)
ZDMCD0.BIC	DMC11 Basic Micro-Processor
ZDMDB0.BIC	DM11BB Diag
ZDMED2.BIC	DMC11 DDCMP Line Unit Tests
ZDMFC2.BIC	DMC11 Bitstuff Units Tests
ZDMGD0.BIC	DMC11 Low Speed Jump/Free Run
ZDMHC1.BIC	DMC11 High Speed Jump/Free Run
ZDMID3.BIC	DMC11 Diag
ZDMOA1.BIC	DMC11 ITEP Overlay (unsupported)
ZDMPD0.BIC	DMR11 M8207 Static Diag #1
ZDMQE0.BIC	DMR11 M8207 Static Diag #2
ZDMRF0.BIC	DMR11 M8203 Static Test #1
ZDMSF0.BIC	DMR11 M8203 Static Test #2
ZDMTF1.BIC	DMP11/DMV11 Func Test
ZDNAD0.BIN	DN11 Digital Dialer
ZDPAD0.BIC	DP11 Sync Interface Diag (unsupported)
ZDPBC0.BIC	DUP11 Offline SDLC Xmtr
ZDPCD0.BIC	DUP11 Offline SDLC Rcvr
ZDPDD0.BIN	DUP11 DSLC DECMD Test
ZDPEC0.BIC	DUP11 Confidence Check Exer
ZDPFB0.BIN	DUP11FA ITEP Overlay (unsupported)
ZDPGB0.BIN	VT61/DUP11 Diag Self-Test/Loopback
ZDPOD0.BIN	DP11 ITEP Overlay (unsupported)
ZDQAD0.BIC	DQ11 Basic Logic Test Part 1 (unsupported)
ZDQBD0.BIC	DQ11 Basic Logic Test Part 2 (unsupported)
ZDQCE0.BIC	DQ11 Interrupt Logic Test (unsupported)
ZDQDE0.BIC	DQ11 Rxcvr/Xmtr Tests (unsupported)
ZDQEE0.BIC	DQ11 Misc Tests and BCC Tests (unsupported)
ZDQFF0.BIC	DQ11 Sequence Register Test (unsupported)
ZDQGB0.BIC	DQ11 Trail Program (Parameter) (unsupported)
ZDQHE0.BIC	DQ11 Character Length/Interrupt (unsupported)
ZDQOD0.BIN	DQ11 ITEP Overlay (unsupported)
ZDRBI0.BIC	DR11B NPR Interface
ZDRCH1.BIC	DR11C Device Register Test
ZDRDA0.BIC	DR11A (Dual) Interface Part 1
ZDREA0.BIC	DR11A (Dual) Interface Part 2
ZDRFA0.BIN	DR11C Exer
ZDRGE0.BIC	DR11K Digital I/O Test
ZDRHA1.BIN	DR11L/DR11M Exerciser
ZDRIB0.BIC	DR11A Device Register Test
ZDRKB0.BIN	DR11W Interprocessor Exer
ZDRLD0.BIN	DR11 Gen NPR Interface Diag

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZDRMA0.BIC	DR11A/DR11B/DR11C Diag
ZDRUA0.BIN	DRU11C Diag
ZDRVD0.BIN	DRV11-WA Dma Interface Diag
ZDTAB0.BIC	DT11 Diag
ZDUAE0.BIC	DU11 Offline Logic Test (unsupported)
ZDUBD0.BIC	DU11 Offline Rcvr Tests (unsupported)
ZDUCD0.BIC	DU11 Reciever Timing Tests (unsupported)
ZDUDD0.BIC	DU11 Offline Xmtr Tests (unsupported)
ZDUED0.BIC	DU11 Offline Combined Timing-Inst (unsupported)
ZDUFD0.BIC	DU11 Offline Combined Tests (unsupported)
ZDUOB0.BIN	DU11 ITEP Overlay
ZDUQC1.BIN	DUV11 Offline Logic Test
ZDURB1.BIC	DUV11 Offline Reciever Tests
ZDUSB1.BIC	DUV11 Offline Reciever Timing
ZDUTB1.BIC	DUV11 Offline Transmitter
ZDUUB1.BIC	DUV11 Offline Combined Timing/Inst
ZDUVB1.BIC	DUV11 Offline Combined
ZDVAC0.BIc	DV11 R/W Tests and Rom Inst
ZDVBC0.BIC	DV11 Static Line Card Test
ZDVCD0.BIC	DV11 Rom Data Check Test Part 1
ZDVDD1.BIC	DV11 Rom Data Check Test Part 2
ZDVEC1.BIC	DV11 Modem Control
ZDVFA0.BIC	DV11 Async Line Card Test
ZDVOB0.BIC	DV11 ITEP Overlay
ZDXAD3.BIC	DX11 Maint Clock #1 (unsupported)
ZDXDA0.BIN	DX11B +Friend (unsupported)
ZDXFD0.BIN	DX11 Maint Clock #2 (unsupported)
ZDXGC0.BIN	DX11 Offline Exerciser (unsupported)
ZDXHD0.BIC	DX11 Online Maint Exer (unsupported)
ZDXIC0.BIC	DX11B Responder (unsupported)
ZDXJC0.BIC	DX11B Addressing Test (unsupported)
ZDZAJ0.BIC	DZ11 8 Line Async Mux Test
ZDZBC0.BIN	DZ11 ITEP Overlay (unsupported)
ZDZCB0.BIN	VT62/DZ11 Self-Test/Loopback (unsupported)
ZDZGA0.BIC	GS3WD/DZ11 Logic Test
ZFLAD0.BIN	Float Utility Program
ZICAD0.BIN	ICS11 Field Test
ZIDVA0.BIC	IDV11D 5 Chan Control Diag
ZIEAD0.BIN	IUE11K/IEQ11A Static Test
ZIEBA0.BIC	IEC11A Diag
ZIECA0.BIC	IEC11B Diag
ZIRAA0.BIN	ICR11 Controller Diag
ZIRBA1.BIN	ICR11 Field Test
ZITAD0.BIN	ITEP Monitor (unsupported)
ZIXVB0.BIN	IDV11/IAV11 I/O Test
ZKANA0.BIN	AA11 DAC Calibration (unsupported)
ZKAOB0.BIN	VT06 Diagnostic
ZKAPC0.BIN	LAB11 Scope Control Test (unsupported)
ZKAQH0.BIC	PDP11 Power Fail
ZKARB0.BIC	1105 Test 14 Traps (unsupported)
ZKCAA1.BIC	KMC11 Cpu Micro-Diag
ZKCCA0.BIC	KMC11 W/R and Micro-Processor
ZKCDA0.BIC	KMC11 Main Memory Jump/Cram Test
ZKCEB0.BIC	KMC11 DDCMP Mode Line Units Tests

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZKCFB0.BIC	KMC11 Bitstuff Mode Line Units Test
ZKCGA0.BIC	KMC11 Free Running Test
ZKCHA0.BIC	ISB11A Serial Bus Exer
ZKCIB0.BIN	RT801/RT803/RT805 DPM Remote Sys
ZKCTA0.BIN	KCT32 Diag
ZKDAA0.BIN	BB11D DMA Interface (unsupported)
ZKDJB2.BIN	KDJ11A CPU Diag
ZKDKB0.BIN	KDJ11 KT Test
ZKDLB0.BIC	KDJ11 FPP Test
ZKDMB0.BIN	KDJ11 Cache Test
ZKEBB0.BIC	1135/1140 KE11 EAE Basic Logic Test (unsupported)
ZKECA0.BIN	1135/1140 EAE Random Exer (unsupported)
ZKEDA0.BIC	KE11B Diag Package (unsupported)
ZKEEC0.BIC	1135/1140/1144 KE11 CIS Exer
ZKGAB0.BIC	KG11A CRC Test
ZKHAB0.BIC	KIT11H Exer
ZKLAE0.BIC	KL11/DL11A teletype Tests (unsupported)
ZKMAF0.BIC	Mos/Core 0-124K Memory Exer
ZKMBA0.BIC	KMC11-B Static Test Part 1
ZKMCA0.BIC	KMC11-B Static Test Part 2
ZKMDA0.BIC	DMS11DA Static Test
ZKMEA0.BIC	DMS11DA Dynamic Test
ZKMFA0.BIC	KMS11BD/KMC11B Interactive Test
ZKMGA0.BIC	DM11BA Modem Control Test
ZKMOA0.BIN	KMC11 ITEP Overlay (unsupported)
ZKMSA0.BIN	KMS11BD DCLT Test
ZKMUA0.BIC	KMS11B DCLT
ZKMVA0.BIC	KMS11K Diag Test
ZKUAE0.BIN	Unibus Sys exer
ZKUBC0.BIN	Unibus Exer
ZKTCA0.BIN	KXT11CA Diag
ZKVBB0.BIN	VT71 Video Test
ZKWAG0.BIC	KW11L Line Freq Clock
ZKWBJ1.BIC	KW11P real Time Clock
ZKWCC2.BIC	KW11K Logic Test
ZKWKA2.BIC	KW11K Diag
ZKWLA0.BIN	KW11C Diag
ZLABA1.BIC	LC11/LA30 Serial Test
ZLACF0.BIN	LA36 Terminal (DL11/KL11)
ZLADD0.BIN	LA36 Terminal (DH11/DJ11)
ZLAEB0.BIN	LA180 Printer Diag
ZLAFA1.BIN	LA36 Terminal Test
ZLAIB0.BIN	LA00 DMT Diag
ZLCAC0.BIN	LC11/LA30 Terminal Test (unsupported)
ZLCPA0.BIC	LCP01 Printer Diag
ZLDIA0.BIN	DECSA Image File
ZLKAA0.BIC	LK11Z Push Button Module (unsupported)
ZLNAD0.BIN	LN01 Line Printer
ZLPAB1.BIN	LP11 Line Printer Test
ZLPBB0.BIN	LPC11B Interface Diag (unsupported)
ZLPCC0.BIC	LPS11 Diag Test 1 (unsupported)
ZLPDC0.BIC	LPS11 Diag Test 2 (unsupported)
ZLPIB0.BIC	LPS11 DRA Digital I/O Test (unsupported)
ZLPJB0.BIN	LPD11 Interface Diag Test (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZLPKH0.BIN	LP11/LP05 Line Printer Test
ZLPLG0.BIN	LP25/LP26/LP07 Diag
ZLQPB0.BIN	LQP11/LQPSEF Diag
ZLSAB0.BIC	LS11 Centronic Printer Test
ZLVAB0.BIC	LV11 Printer/Plotter Test
ZLXAC0.BIN	LXY11/LXY21 LXV11 Diag
ZM9AE0.BIC	M9301YX Boot Terminator
ZM9BE0.BIC	M9312/1144 Boot Terminator
ZMLAD0.BIN	ML11 Logic Test
ZMLBB0.BIN	ML11 Perf Exer
ZMLCB0.BIN	ML11 Prom Maint Test
ZMMJA0.BIC	8K Special
ZMMLC0.BIC	MF11S/MF11K Memory Diag (unsupported)
ZMRAC0.BIC	MR11 Diag
ZMSDD0.BIN	MS11L/MS11M Memory Test
ZMSPC0.BIN	MS11L/MS11M/MS11P Memory Diag
ZNCAC1.BIC	NC11A Logic Test (unsupported)
ZNCBC0.BIN	NC11A Gamma 11 Exer (unsupported)
ZNCCC0.BIN	NCV11 Diag
ZNCDB0.BIN	NCV11 Exer
ZNWAA0.BIN	NW11 Diag (unsupported)
ZPAAC0.BIN	Typeset 11 Reader/Punch Test (unsupported)
ZPABA0.BIN	Typeset 11 Multi Reader/Punch (unsupported)
ZPCAE0.BIC	PC11 Diag (unsupported)
ZPLAC0.BIN	PCL11 Exer V-02
ZPLBC0.BIN	PCL11 Stand Alone V-02
ZPMAC0.BIN	PDM70 Diag (unsupported)
ZPRBA0.BIN	PRS01 Toggle In (unsupported)
ZQCAG1.BIN	Comm Exerc (unsupported)
ZQKBH0.BIC	T17 4K Sys Exer
ZQKCF0.BIC	11 family Exer (unsupported)
ZQMAB1.BIC	Memory I/O (unsupported)
ZQMBG2.BIN	0-124K Memory Exer 8K (unsupported)
ZQMCH0.BIC	0-124k Memory Exer 16K
ZQNAK0.BIN	DEQNA/DELQA/DESQA Func Test
ZQUXH3.BIN	DEC/X11 Config Linker (unsupported)
ZQUYE1.BIN	SM Sys Config Linker (unsupported)
ZR6AD0.BIC	RK611/RK711 Diskless Control 1
ZR6BD0.BIC	RK611/RK711 Diskless Control 2
ZR6CE0.BIC	RK611/RK711 Diskless Control 3
ZR6DD0.BIC	RK611/RK711 Diskless Control 4
ZR6EC0.BIC	RK611/RK711 Diskless Control 5
ZR6GC0.BIC	RK06/RK07 Dual Port
ZR6HG1.BIC	RK06/RK07 Disk 1
ZR6IF1.BIC	RK06/RK07 Disk 2
ZR6JF0.BIN	RK06/RK07 Disk 3
ZR6KG1.BIC	RK611/RK711 Functional Controller
ZR6LD0.BIN	RK06/RK07 Catridge Formatter
ZR6ME1.BIC	RK06/RK07 Subsystem Verify 1
ZR6NE3.BIC	RK06/RK07 Subsystem Verify 2
ZR6PD0.BIN	RK06/RK07 Perf Exer
ZR6QC0.BIN	RK06/RK07 Drive Compatability
ZR6RC1.BIN	RK06/RK07 User Defined Test
ZRCAB0.BIC	RC11 Static Test

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZRCBB0.BIC	RC11 Disk Data
ZRCCB0.BIC	RC11 Multi Disk
ZRCDC0.BIN	RC25 Exer
ZRCFC0.BIN	RC25 Front End Test
ZRCHB0.BIC	RC25 Formatter
ZRFAB0.BIC	RF11 Static
ZRFBB1.BIC	RF11 Disk Data
ZRFCB0.BIC	RF11 Multi Disk
ZRHBF0.BIC	RH70/RH11 Diag
ZRJAD0.BIC	RP04/RP05/RP06 Mech R/W
ZRJBD0.BIC	RP04/RP05/RP06 Formatter
ZRJCB0.BIC	RP04/RP05/RP06 Head Alignment Verify
ZDJDE0.BIC	RP04/RP05/RP06 Multi-Drive Exer
ZRJED0.BIN	RP04/RP05/RP06 Dual Port Logic #1
ZRJFA0.BIN	RP04/RP05/RP06 Dual Port Logic #2
ZRJGE0.BIC	RP04/RP05/RP06 Diskless 1
ZRJHE0.BIC	RP04/RP05/RP06 Diskless 2
ZRJID0.BIC	RP04/RP05/RP06 Functional Controller #1
ZRJJD0.BIC	RP04/RP05/RP06 Functional Controller #2
ZRJKB0.BIC	RP07 Formatter/Scanner
ZRJLB0.BIC	RP07 Functional Test
ZRJMB0.BIC	RP07 FE?Host Isolater
ZRJNA0.BIC	RP07 Dual Port Test
ZRJOB0.BIC	RP07 Exer
ZRKHG0.BIC	RK11/RK05 Perf Exer
ZRKIF0.BIN	RK11/RK05 Utility Package
ZRKJE0.BIC	RK11/RK05 Basic Logic Test 1
ZRKKF3.BIC	RK11/RK05 Basic Logic Test 2
ZRKLE0.BIC	RK11/RK05 Dynamic Test
ZRLAB0,BIC	RL11/RLV11 RL01 Control Test 1 (unsupported)
ZRKBB0.BIC	RL11/RLV11 RL01 Control Test 2 (unsupported)
ZRLCB0.BIC	RL01 Drive Test 1 (unsupported)
ZRLDB0.BIC	RL01 Drive Test 2 (unsupported)
ZRLEB0.BIC	RL01 Perf Exer (unsupported)
ZRLFB0.BIN	RL01 Drive Compatability Test (unsupported)
ZRLGE0.BIC	RL11/RLV11 Controller #1
ZRLHB1.BIC	RL11/RLV11 Controller #2
ZRLID1.BIC	RL01/RL02 Drive Test 1
ZRLJC0.BIC	RL01/RL02 Drive Test 2
ZRLKB3.BIC	RL01/RL02 Perf Exer
ZRLLC1.BIN	RL01/RL02 Drive Compatability
ZRLMC0.BIN	RL01/RL02 Bad Sector File Test
ZRLNC0.BIN	RL01/RL02 Drive Test #3
ZRMAC0.BIC	RM02/RM03 Formatter (unsupported)
ZRMBB0.BIC	RM02/RM03 Perf Exer (unsupported)
ZRMCB2.BIC	RM02/RM03 Func Test 1 (unsupported)
ZRMDC1.BIC	RM02/RM03 Func Test 2 (unsupported)
ZRMEC0.BIC	RM02/RM03 Func Test 3 (unsupported)
ZRMFB0.BIC	RM02/RM03 Extended Drive Test (unsupported)
ZRMGB0.BIN	RM02/RM03 Dual Port Logic Part 1 (unsupported)
ZRMHB0.BIN	RM02/RM03 Dual Port Logic Part 2 (unsupported)
ZRMIB0.BIN	RM02/RM03 Drive Compatability Test (unsupported)
ZRMJC0.BIC	RM02/RM03 Diskless Part 1 (unsupported)
ZRMKB0.BIC	RM02/RM03 Diskless Part 2 (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZRMLB1.BIC	RM02/RM03/RM05 Formatter
ZRMMB2.BIC	RM02/RM03/RM05 Functional #1
ZRMNB1.BIC	RM02/RM03/RM05 Functional #2
ZRMOB1.BIC	RM02/RM03/RM05 Functional #3
ZRMPB3.BIC	RM02/RM03/RM05 Diskless #1
ZRMQB1.BIC	RM02/RM03/RM05 Diskless #2
ZRMRB0.BIN	RM02/RM03/RM05 Dual Port #1
ZRMSB0.BIN	RM02/RM03/RM05 Dual Port #2
ZRMTB0.BIN	RM02/RM03/RM05 Drive Compatability
ZRMUB1.BIC	RM02/RM03/RM05 Perf Exer
ZRMVB1.BIC	RM02/RM03/RM05 Extended Drive Test
ZRNAA0.BIC	RM80 Perf Test
ZRNBA0.BIC	RM80 Diskless Part 1
ZRNCA0.BIC	RM80 Diskless Part 2
ZRNDA0.BIC	RM80 Func Part 1
ZRNEA0.BIC	RM80 Func Part 2
ZRNFA0.BIC	RM80 Func Part 3
ZRNGA0.BIC	RM80 Func Part 4
ZRNHA0.BIC	RM80 Dual Port Part 1
ZRNIA0.BIC	RM80 Dual Port Part 2
ZRNJB0.BIC	RM80 Formatter
ZRP1C0.BIC	RP11E Multi-Drive Exer
ZRP2B0.BIN	RP11E Disk Pack Formatter
ZRPAD2.BIN	RP11C Diskless
ZRPBE0.BIN	RP11C Reliability
ZRPCD0.BIN	RP11C Multi-Drive
ZRPDB0.BIN	RP11C Disk Pack Formatter
ZRPEA0.BIN	RP11 Diskless
ZRPFB0.BIC	RP11 Reliabilty
ZRPGB0.BIC	RP11 Multi-Drive
ZRPHA0.BIN	RP11 Disk/Pack Formatter
ZRPKB0.BIN	RP04/RH11 R/W Test (unsupported)
ZRPLB0.BIN	RP04/RH11 Formatter (unsupported)
ZRPNB0.BIN	RP04/RH11 Exer (unsupported)
ZRPPB0.BIN	RP04/RH11 Logic 1 (unsupported)
ZRPQB0.BIN	RP04/RH11 Logic 2 (unsupported)
ZRPSB0.BIN	RP04/RH11 MBI/DCL Test (unsupported)
ZRPTB0.BIN	RP04/RH11 Massbus Interface (unsupported)
ZRPUB0.BIN	RJP04 Func Part 1 (unsupported)
ZRPVB0.BIN	RJP04 Func Part 2 (unsupported)
ZRPWC0.BIC	RP11E Diskless Logic Test
ZRPYD1.BIC	RP11E Func Logic R/W
ZRPZD0.BIC	RP11E Drive Positioning Test
ZRQAH0.BIC	RQDX1/RD51/RX51 Exer
ZRQBC1.BIN	RQDX1/RD51/RX51 Formatter
ZRQCH0.BIN	RQDX3/RD31/RD32/RD33/RD51/RD52/RD53/RD54/RX33 Formatter
ZRQEC1.BIN	RQDX3 Exer
ZRQGC0.BIN	RQDX1/RQDX2/RQDX3 Utility
ZRSBH0.BIN	RH11/RS03/RS04 Basic Func (unsupported)
ZRSCG0.BIC	RH11/RS03/RS04 Data Reliability (unsupported)
ZRSDC0.BIN	RH11/RS04 Maint Mode Diag (unsupported)
ZRSEC0.BIN	RH11/RS03 Maint Mode Diag (unsupported)
ZRTAC0.BIC	RT01/RT02 Terminal (unsupported)
ZRXAF0.BIC	RX11 System Reliability Test

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZRXBF0.BIC	Rx11 Interface Diag
ZRXCA0.BIN	RX02 Perf Exer
ZRXDC0.BIC	RX02 Sub Sys Verify
ZRXEA2.BIC	RX02 Formatter
ZRXFB0.BIC	RX02 Func Controller
ZSCMC0.BIN	SCM (M7505) Mod Diag
ZSIZBO.BIN	PDP-11 UNIBUS Sizer
ZTAAC0.BIN	TA11 Logic Test #1 (unsupported)
ZTABC0.BIN	TA11 Logic Test #2 (unsupported)
ZTACC0.BIN	TA11 Manual Intervention (unsupported)
ZTADD0.BIN	TA11 Motion Test (unsupported)
ZTAEC0.BIC	TA11 Data Reliability (unsupported)
ZTAFC0.BIN	TA11 Cassette Loader (unsupported)
ZTAHA0.BIN	TA11 Cassette Duplicator (unsupported)
ZTCAA0.BIC	TU56/TC11 TC1 Basic Logic (unsupported)
ZTCBE0.BIC	TU56/TC11 TC2 Basic Logic (unsupported)
ZTCCA0.BIC	TU56/TC11 TC3 Basic Logic (unsupported)
ZTCDC0.BIC	TU56/TC11 TC4 Read and Write All (unsupported)
ZTCED0.BIC	TU56/TC11 TC5 Exer (unsupported)
ZTEAE0.BIC	TM03/TE16 Control Logic Test 1
ZTEBC0.BIC	TM03/TE16 Control Logic Test 2
ZTECF0.BIC	TM03/TE16/TU77 Basic Func Test
ZTEDE0.BIC	TM03/TE16/TU77 Reliability
ZTEEE0.BIN	TM03/TE16/TU77 Drive Func Timer
ZTEFB0.BIN	TU16/TE16/TU77 Utility-Brutis
ZTKAF0.BIC	TK50/TK70 Front End Test
ZTKBD0.BIC	TK50/TK70 Data Reliability
ZTKEB0.BIC	TK25 Front End Func Part 1
ZTKFA0.BIC	TK25 Front End Func Part 2
ZTKGA0.BIC	TK25 Front End Func Part 3
ZTKHA0.BIC	TK25 Front End Func Part 4
ZTKIB0.BIC	TK25 Data Reliability
ZTMAI0.BIC	TM11 Inst Test
ZTMBG0.BIC	TM11 Data Reliabilty (9 Track)
ZTMCD0.BIC	TM11 Data Relibility (7 Track)
ZTMDE0.BIN	TM11 Drive Func Timer
ZTMEE0.BIC	TMA11A Drive Func Timer
ZTMFF1.BIC	TMA11/TMB11 Suplimental Instr
ZTMGC0.BIN	TMA11 Utility Driver
ZTMHF1.BIC	TMA11 Multi-Drive Data Reliability
ZTMIC0.BIN	TM78 Control Logic Test (unsupported)
ZTMJA0.BIN	TM78 Perf Exer (unsupported)
ZTRAC0.BIC	TR79F Tape Diag (unsupported)
ZTRBD0.BIN	TR79F Utility Timing Prog (unsupported)
ZTSAA0.BIN	TSU05 Diag Part 1
ZTSBA0.BIN	TSU05 Diag Part 2
ZTSCA0.BIN	TSU05 Diag Part 3
ZTSDA0.BIN	TSU05 Diag Part 4
ZTSEC0.BIC	TS03/TMA11 Drive Func Timer
ZTSFD0.BIC	TS03/TMA11 Suplimental Instr
ZTSGB0.BIN	TS03/TMA11 Utility Driver
ZTSHD0.BIC	TS04/TS11 Data Reliability
ZTSIC0.BIC	TS04/TS11 Control Logic
ZTU1A0.BIN	TU81 (E) Data Reliability

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZTU2E0.BIC	TU81 (E) Front End Test
ZTUAJ0.BIC	TM02/TU16/TE16 Reliability
ZTUBH0.BIC	TM02/TU16/TE16 Basic Func
ZTUCG0.BIC	TM02/TU16 Control Logic
ZTUDD0.BIN	TM02/TU16 Drive Func Timer
ZTUED0.BIN	TM02/TU16 Utility Driver
ZTUFA0.BIN	TM02/TE16 Data Tape Create
ZTUGC1.BIC	TM02/TE16 Drive Func Timer
ZTUIA0.BIN	TM02/TU45 Data Reliability
ZTUJA0.BIN	TM02/TU45 Basic Func
ZTUKA0.BIN	TM02/TU45 Control Logic
ZTULA0.BIN	TM02/TU45 Drive Func Timer
ZTUMA0.BIN	TM02/TU45 Utility Driver
ZTUNA0.BIN	TM02/TU45 Data Tape Create
ZTUOB0.BIC	TM03/TU45 Logic Part 1
ZTUPB0.BIC	TM03/TU45 Logic Part 2
ZTUQB0.BIC	TM03/TU45 Basic Func
ZTURB0.BIC	TM03/TU45 Data reliability
ZTUSB0.BIN	TM03/TU45 Drive Func Timer
ZTUTA0.BIN	TM03/TU45 Utility Driver
ZTUUF0.BIC	TU58 Perf Exer
ZTUVB0.BIC	TU80 Reliability
ZTUWA0.BIC	TU80 F.E. Diag Part A
ZTUXA0.BIN	TU80 F.E. Diag Part B
ZTUYA0.BIC	TU80 F.E. Diag Part C
ZTUZA0.BIC	TU80 F.E. Diag Part D
ZUAAB0.BIC	DEUNA Repair Diag
ZUABC0.BIC	DEUNA Func Test
ZUACD0.BIC	DEUNA Exer
ZUADB1.BIC	DELUA Exer
ZUDAD0.BIN	UDC Exer
ZUDBB0.BIC	UDC Control Test
ZUDCE0.BIC	UDA50 RA60/RA80/RA81 Disk Diag
ZUDDC0.PAK	UDA50 RA60/RA80/RA81 Diag Data File
ZUDED0.BIC	UDA50 RA60/RA80/RA81 Formatter
ZUDFA0.BIC	UDA50 RA60/RA80/RA81 Formatter Data File
ZUDGA0.PAK	UDA50 Format Data File
ZUDHF0.BIC	UDA50/KDA50 Basic Subsystem Test
ZUDIE0.BIC	UDA50/KDA50 Drive Exer
ZUDJD0.BIC	UDA50/KDA50 Subsystem Exer
ZUDKH0.BIN	UDA50/KDA50 Formatter
ZUDLD0.BIN	UDA50/KDA50 Bad Block Replacement
ZUDMD0.BIN	UDA50/KDA50 Error Log utility
ZVSAB0.BIC	VS60 Instr Test Part 1 (unsupported)
ZVSBB0.BIC	VS60 Instr Test Part 2 (unsupported)
ZVSCC0.BIC	VS60 Instr Test Part 3 (unsupported)
ZVSDC0.BIC	VS60 Visual Display Test (unsupported)
ZVSEA0.BIC	VSV01 Diag Test
ZVSFA0.BIC	VS60 Visual/XY Controller (unsupported)
ZVSVA0.BIN	VS11/VSV11LU Color Option Test
ZVSWB0.BIC	VSV21 Diag
ZVTBD0.BIC	VT05 Display Test (unsupported)
ZVTCF0.BIN	VT50/VT52 Acceptance Test (unsupported)
ZVTDB1.BIC	VT55 Video Terminal Acceptance (unsupported)

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Table 12–2 (Cont.): Diagnostics

Diagnostic Name	Functionality
ZVTEB0.BIN	PDP11/VT20 Host Diag Test (unsupported)
ZVTGA0.BIN	DH11/VT20 System Test (unsupported)
ZVTHC0.BIC	VT61 Family Exer
ZVTJB0.BIN	VT61/DJ11 Family Exer
ZVTKA0.BIC	VT61/VT71T Loopback Test
ZVTLA0.BIN	VT61T/VT71T Multiline Loop
ZVTMA0.BIN	VT61 Acceptance Test
ZVTNA0.BIC	VT105 Acceptance Test
ZVTOA0.BIC	M7142 Acceptance Test
ZVTVA0.BIN	VTV31K Video Interferance Test

Table 12–3: Decx Modules

Diagnostic Name	Functionality
XMONF0.LIB	CXMONE0 DECX Monitor Lib
XAAAD0.OBJ	AA11/VT01A Module
XAABC0.OBJ	AA11K Module
XAACB0.OBJ	AAV11 Module
XADAE0.OBJ	AD01D Module
XADBB0.OBJ	AD11K Module
XADCB0.OBJ	ADV11 Module
XADQA0.OBJ	ADQ32 Module
XAFAE0.OBJ	AFC11 Module
XARAC0.OBJ	AR11 Module
XBBAB0.OBJ	KIT11D Module
XBEAC0.OBJ	M7855 Bus Tester Module
XBMCN0.OBJ	M9301 Rom Module
XBMDE0.OBJ	BDV11 Module
XBMEB0.OBJ	BM873YF Module
XBMFB0.OBJ	BM873YH Module
XBMGB0.OBJ	BM873YJ Module
XBMHB0.OBJ	M9312 Module
XBMIB0.OBJ	M9400/M9301 Module
XBTAB0.OBJ	Bus Tester Module B
XBTBB0.OBJ	Bus Tester Module A
XBTCD0.OBJ	Q22 Bus Tester
XCBAE0.OBJ	CB11 Scan Module
XCBBE0.OBJ	CB11 Distribute Module
XCBCF0.OBJ	CB11HA Module
XCDAG0.OBJ	CD11 Module
XCIAB0.OBJ	CISP Module
XCMAC0.OBJ	CMS11K Module
XCMJB0.OBJ	CMR11AA Module
XCPAG0.OBJ	Processor Module
XCPBK0.OBJ	EIS Exer Module
XCRAG0.OBJ	CR11 Module
XCSTA0.OBJ	CAST Control Module
XDCAG0.OBJ	DC11 Module
XDHAL0.OBJ	DH11 Module
XDHUA0.OBJ	DHU11 Module
XDHVI0.OBJ	DHV11 Module
XDJAL0.OBJ	DJ11 Module
XDLAL0.OBJ	DL11 Module

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Table 12–3 (Cont.): Decx Modules

Diagnostic Name	Functionality
XDLBD0.OBJ	DL11E Module
XDMBJ0.OBJ	DM11DD Module
XDMCC0.OBJ	DMC11 Module
XDMDF0.OBJ	DMP11/DMV11 Master Module
XDMEC0.OBJ	DMP11/DMV11 Slave Module
XDMRC0.OBJ	DMR11 Module
XDMSA0.OBJ	DM11BA Module
XDNAH0.OBJ	DN11 Module
XDPAE0.OBJ	DP11 Module
XDPBB0.OBJ	DUP11 Module
XDPVC0.OBJ	DPV11 Module
XDQAI0.OBJ	DQ11 Module
XDRAD0.OBJ	DR11A Module
XDRBJ0.OBJ	DR11B Module
XDRCI0.OBJ	DR11C Module
XDRDC0.OBJ	DR11K Module
XDREC0.OBJ	DR11M/DR11L Module
XDRFE0.OBJ	DRV11B Module
XDRJC0.OBJ	DRV11J Module
XDRKA0.OBJ	DR70 Module
XDRUA0.OBJ	DRU11C Module
XDRWD0.OBJ	DR11W Module
XDTAD0.OBJ	DTE20 Module
XDUAI0.OBJ	DU11 Module
XDUBE0.OBJ	UDA50/KDA50 Module
XDVAB0.OBJ	DV11 Module
XDXAG0.OBJ	DX11 Module
XDZAG0.OBJ	DZ11 Module
XDZBC0.OBJ	DZV11 Module
XDZMA0.OBJ	DZM11 Module
XFPAG0.OBJ	1140/1145 FP11 Module
XFPBF0.OBJ	1134/1144/1170 FP11 Module
XGTAE0.OBJ	GT40 Module
XIBAD0.OBJ	IBV11A Module
XICAD0.OBJ	ICS11 Module
XICBC0.OBJ	ICR11 Module
XIEAB0.OBJ	IEU11K Module
XIEBA0.OBJ	IEC11A Module
XIECA0.OBJ	IEC11B Module
XKEAD0.OBJ	KE11 Module
XKGAD0.OBJ	KG11 Module
XKLAE0.OBJ	KL11 MOdule
XKMAA0.OBJ	KMC11B Module
XKMCD0.OBJ	KMC11 Module
XKMDB0.OBJ	KMV11A/KMV11B/KMV11C Module
XKMKA0.OBJ	KMV11C Module
XKMSA0.OBJ	KMS11K Module
XKUAB0.OBJ	KUV11AA Module
XKWAH0.OBJ	KW11L Module
XKWBL0.OBJ	KW11P Module
XKWCB0.OBJ	KW11W Module
XKWDB0.OBJ	KW11K Module
XKWEB0.OBJ	KWV11K Module
XKWFB0.OBJ	DecSystem Timing Module

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Table 12–3 (Cont.): Decx Modules

Diagnostic Name	Functionality
XKWGA0.OBJ	KW11C Module
XKXAA0.OBJ	KXJ11 Module
XLKAB0.OBJ	LK11 Module
XLPAF0.OBJ	LP11 Module
XLPBF0.OBJ	LPS11KW Module
XLPCE0.OBJ	LPS11/LPS-VC Module
XLPDF0.OBJ	LPS11AD/LPS11NP Module
XLPED0.OBJ	LPD11 Module
XLPFB0.OBJ	LP20 Module
XLPHE0.OBJ	LPA11XX Module
XLPJC0.OBJ	LPV11 Module
XMLAA0.OBJ	ML11 Module
XMNAB0.OBJ	MNCAD (A-D) Module
XMNBB0.OBJ	MNCAI Module
XMNCB0.OBJ	MNCKW Module
XMNDB0.OBJ	MNCDA (D-A) Module
XMNEB0.OBJ	MNCD0 Module
XNCAD0.OBJ	NC11 Module
XNCBB0.OBJ	NCV11 Module
XPAAF0.OBJ	PA611 Reader Module
XPABG0.OBJ	PA611 Punch Module
XPCCE0.OBJ	PC11 Module
XPCSC0.OBJ	PCS11 Module
XPLAC0.OBJ	PCL11 Module
XQNAF0.OBJ	DEQNA/DELQA Module
XRCAD0.OBJ	RC11 Module
XRCFC0.OBJ	RC25 Module
XRFAG0.OBJ	RF11 Module
XRHAA0.OBJ	RH01 Module
XRKAG0.OBJ	RK11 Module
XRKBH1.OBJ	RK611/RK06/RK07 Module
XRLAK0.OBJ	RL11/RL01/RL02 Module
XRMAD0.OBJ	RH11/RH70/RM02/RM03 Module (unsupported)
XRMBC0.OBJ	RH11/RM03 Dual Port Module (unsupported)
XRMCA0.OBJ	RM02/RM03/RM05 Module (unsupported)
XRMDB0.OBJ	RM02/RM03/RM05/RP04/RP05/RP06 Module
XRNAB0.OBJ	RM80/RP07 Module
XRPAM0.OBJ	RP11 Module
XRPBI0.OBJ	RH11/RH70 Disk Module (unsupported)
XRPDD0.OBJ	RP04/RP05/RP06 Single Port Module (unsupported)
XRQAI0.OBJ	RQX1/RX50/RD51 Module
XRSAJ0.OBJ	RH11/RS03/RS04, RS03/LA Module
XRXAE0.OBJ	RX01 Module
XRXBC0.OBJ	RX02 Module
XTAAD0.OBJ	TA11/TU58 Module
XTCAG0.OBJ	TC11/TU56 Module
XTKAB0.OBJ	TK50 Module
XTKBB0.OBJ	TK25 Module
XTMAJ0.OBJ	TM11/TU10,TS03/TMA11 Module
XTMBN0.OBJ	TM02/TM03/TU16/TE16/TU45/TU77 Module
XTMDB0.OBJ	TM78 Module
XTRAD0.OBJ	TR79F Module
XTSAC0.OBJ	TS11/TS04/TU80 Module
XTSVA0.OBJ	TSV05 Module

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Table 12–3 (Cont.): Decx Modules

Diagnostic Name	Functionality
XTUAD0.OBJ	TU58 Module
XTUCB0.OBJ	TU81E Module
XUACB0.OBJ	DEUNA Module
XUADB0.OBJ	DELUA Module
XUDAD0.OBJ	UDC11 Module
XVSAC0.OBJ	VS60 Module
XVSBB0.OBJ	VSV01 Module
XVSCB0.OBJ	VS11/VSV11 CSS Module
XVSVA0.OBJ	VSV21 Module
XVTAB0.OBJ	VT20 Module
XVTBB0.OBJ	DH11/VT20 Module
XVTCB0.OBJ	VTV30K CSS Module
XVTVB0.OBJ	VTV30J/VTV30H/VT30H Module
XXYAD0.OBJ	XY11 Plot Module
XXYBB0.OBJ	XY311 CSS Plotter Module

Table 12–4: XXDP+ V1 System Files

Diagnostic Name	Functionality
HSAAC0.SYS	RTS Diag Supervisor (unsupported)
HSABD0.SYS	APT Diag Supervisor (unsupported)
HSACC0.SYS	ACT Diag Supervisor (unsupported)
HSADB0.SYS	PT Diag Supervisor (unsupported)
HUDID0.SYS	Monitor Directory (unsupported)
HDCTB0.SYS	CT Driver (TU60/TA11) (unsupported)
HDDBC1.SYS	DB Driver (RP04/RP05/RP06/RH11/RH70) (unsupported)
HDDDD0.SYS	DD Driver (TU58/DL11) (unsupported)
HDDKB0.SYS	DK Driver (RK05/RK11) (unsupported)
HDDLD0.SYS	DL Driver (RL01/RL02/RLXXX) (unsupported)
HDDMC0.SYS	DM Driver (RK06/RK07/RK611/RK711) (unsupported)
HDDPB0.SYS	DP Driver (RP02/RP03/RP11) (unsupported)
HDDQB1.SYS	DQ Driver (RQ11/RXQ11) (unsupported)
HDDRC0.SYS	DR Driver (RM02/RM03/RM05/RH11/RH70) (unsupported)
HDDSB0.SYS	DS Driver (RS03/RS04) (unsupported)
HDDTB0.SYS	DT Driver (TU55/TU56/TC11) (unsupported)
HDDUE0.SYS	DU Driver (UDA50/RAXX) (unsupported)
HDDXB0.SYS	DX Driver (RX01/RX11/RXV11) (unsupported)
HDDYD0.SYS	DY Driver (RX02/RX211/RXV211) (unsupported)
HDKBB0.SYS	KB DRiver (Lo Sp Pt Pnch/LT33) (unsupported)
HDLPA0.SYS	LP Driver (W/O Line Printer) (unsupported)
HDPDB0.SYS	PD Driver (PDT11) (unsupported)
HDPEA0.SYS	PE Driver (1600 Bpi/TM02/TM03) (unsupported)
HDPPB0.SYS	PP Driver (Hi Sp Pnch/PC05) (unsupported)
HDPRB0.SYS	PR Driver (Hi Sp Pt Rd/PC05) (unsupported)
HDPTB0.SYS	PT Driver (Lo Sp Pt Rd/LT33) (unsupported)
HDMFB0.SYS	MF Driver (TU78/TM78) (unsupported)
HDMMC0.SYS	MM Driver (TM02/TM03/Any Slave) (unsupported)
HDMSC0.SYS	MS Driver (TS04/TS11, TU80) (unsupported)
HDMTB0.SYS	MT Driver (TU10/TE10/TS03/TM11) (unsupported)
HDTRA0.SYS	TR Driver (TR79 Bell) (unsupported)
HMCTA1.SYS	CT Monitor (TU60/TA11) (unsupported)
HMDBD0.SYS	DB Monitor (RP04/RP05/RP06/RH11/RH70) (unsupported)
HMDDD0.SYS	DD Monitor (TU58/DL11) (unsupported)

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Table 12–4 (Cont.): XXDP+ V1 System Files

Diagnostic Name	Functionality
HMDKD0.SYS	DK Monitor (RK05/RK11) (unsupported)
HMDLE0.SYS	DL Monitor (RL01/RL02/RLXXX) (unsupported)
HMDMD0.SYS	DM Monitor (RK06/RK07/RK611/RK711) (unsupported)
HMDPD0.SYS	DP Monitor (RP02/RP03/RP11) (unsupported)
HMDRD0.SYS	DR Monitor (RM02/RM03/RM05/RH11/RH70) (unsupported)
HMDSD0.SYS	DS Monitor (RS03/RS04) (unsupported)
HMDTC1.SYS	DT Monitor (TU55/TU56/TC11) (unsupported)
HMDUC0.SYS	DU Monitor (UDA50/RAXX) (unsupported)
HMDXD0.SYS	DX Monitor (RX01/RX11/RXV11) (unsupported)
HMDYD0.SYS	DY Monitor (RX02/RX211/RXV211) (unsupported)
HMMFA0.SYS	MF Monitor (TU78/TM78) (unsupported)
HMMMD0.SYS	MM Monitor (TM02/TM03/Any Slave) (unsupported)
HMMSD0.SYS	MS Monitor (TS04/TS11, TU80) (unsupported)
HMMTD0.SYS	MY Monitor (TU10/TE10/TS03/TM11) (unsupported)
HMPDB1.SYS	PD Monitor (PDT11) (unsupported)
HMTRC0.SYS	TR Monitor (TR79 Bell) (unsupported)

Table 12–5: XXDP+ V2 System Files

Diagnostic Name	Functionality
XXDPSM.SYS	Small Monitor File
XXDPXM.SYS	Extended Monitor File
DATE.SYS	Date Command Translator
DIR.SYS	Directory Command Translator
MENUB0.SYS	User File Directory Menu
DRSSM.SYS	DRS for the Small Monitor
DRSXM.SYS	DRS for the Extended Monitor
DB.SYS	RP04/RP05/RP06 Driver/Boot
DD.SYS	TU58 Driver/Boot
DL.SYS	RL01/RL02 Driver/Boot
DM.SYS	RK06/RK07 Driver/Boot
DR.SYS	RM02/RM03/RM05 Driver/Boot
DU.SYS	UDA50 (MSCP) Driver/Boot
DY.SYS	RX02 Driver/Boot
LP.SYS	Line Printer Driver
MM.SYS	TM02/TM03(Any Slave) Driver/Boot
MS.SYS	TS11/TS04/TU80 Driver/Boot
PE.SYS	TM02/TM03 1600 Bpi Driver/Boot (unsupported)

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12.2.4 Handy Boot Noddies

12.2.4.1 RL01/2

The simple noddy in the XXDP+ and the RL01/2 pocket guides for booting XXDP+ from an RL drive is not 100% reliable. Also it halts at 154 if the Drive Status Check bit is set. The following noddy gets round these problems.

Firstly, make sure the heads are over cylinder zero by unloading and reloading the drive, then Start the noddy at 10000 and wait 3 seconds, and Halt. Then Start at 0.

```
10000:  012705
        174400
        012765
        000013
        000004
        012715          Where xx = 00 for drive 0
        00xx04          Where xx = 04 for drive 1
        105715          Where xx = 10 for drive 2
        100376          Where xx = 14 for drive 3
        005064
        000004
        012715
        00xx06
        105715
        100376
        012715
        00xx14
        000001
```

There is a more comprehensive noddy on pages 51/52 of the new RL01/2 pocket guide (EK-RL012-PG-005), but it is twice as long.

12.2.4.2 RP04/5/6

There is an error in the DBDP+ boot noddy in the XXDP+ pocket guide. Here is the correct version:

```
10000:  012700
        176700
        012710
        000023
        005060
        000034
        005060
        000006
        012760
        177400
        000002
        012710
        000071
        105710
        100376
        005007
```

Start at 10000.

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F A C T F L A S H

Options Affected: VAX
Submitted By: Dave Bazley
Date: 23-Jan-1995
Filing Instructions: Keep at the end of Chapter 12, VAX DIAGNOSTICS, and throw away previous version dated 11-Apr-1994

VAXPAX 53 release notes

This lists the new versions of diagnostics available with VAXPAX 53. Keep this for ISO purposes.

VAXPAX 53 is available online from COMICS::DISK$TECH:[DIAGS]

EVDRI	DRB32-W FUNCTIONAL	Updated to Revision 5.5
EVGDB	DEMNA EEPROM UTILITY	Updated to Revision 2.0

VAXPAX 54 release notes

This lists the new versions of diagnostics available with VAXPAX 54. Keep this for ISO purposes.

VAXPAX 54 is available online from COMICS::DISK$TECH:[DIAGS]

CIXCD	CIXCD MICROCODE	Updated to Revision %X47 (%D71)
EVGEA	CIXCD FUNCTIONAL TEST	Updated to Revision 4.3
EVGEB	CIXCD EEPROM UPDATE	Updated to Revision 4.3

VAXPAX 55 release notes

This lists the new versions of diagnostics available with VAXPAX 55. Keep this for ISO purposes. I have not seen the fiche for this one yet.

VAXPAX 55 is available online from COMICS::DISK$TECH:[DIAGS]

EVUCA	VAX 6000 EEPROM UTILITY	Updated to revision 2.6
EVUCM	KFMSA EEPROM UTILITY	Updated to revision 1.8
VMB	VAX PRIMARY BOOT FILE	NN block version for OVMS 6.1

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VAXPAX 56 release notes

This lists the new versions of diagnostics available with VAXPAX 56. Keep this for ISO purposes. I have not seen the fiche for this one yet.

VAXPAX 56 is available online from COMICS::DISK$TECH:[DIAGS]

EVGDB	DEMNA EEPROM UTILITY	Updated to revision 2.1

NOTE: Some diagnostics and ucode files on the distributed VAXPAX 56 tapes have mysteriously reverted to earlier (lower) revisions. Those discovered so far are shown below. A modified version of VAXPAX 56 containing the latest revisions of these diagnostics (as seen on VAXPAX 55) is available at Welwyn.

Table 1: VAXPAX 56 low revision diagnostics

Diagnostic	Correct Rev.	Actual Rev.	Description
EVUCA.*	2.6	2.5	VAX 6000 EEPROM utility
ELUCA.BIN	7.4	7.3	VAX 6200 patch file
ELUCB.BIN	8.4	8.3	VAX 6300 patch file
ERUCA.BIN	4.04	4.03	VAX 6400 patch file
EMUCA.BIN	3.08	3.07	VAX 6500 patch file
EXUCA.BIN	1.06	1.05	VAX 6600 patch file
EVUCM5.BIN	?	?	KFMSA patch file

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